

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>54037</b>
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER (Horizontal) <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR <b>Columbia Gas Development Corporation</b>		7. UNIT AGREEMENT NAME <b>Kane Springs Fed. Unit</b>
3. ADDRESS OF OPERATOR <b>P. O. Box 1350 Hou., TX. 77251-1350</b>		8. FARM OR LEASE NAME <b>Kane Springs Federal</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface <b>2400' FWL &amp; 1000' FSL of Sec.20-T26S-R19E</b> At proposed prod. zone <b>1186' FSL &amp; 2265 FSL of Sec.20-T26S-R19E</b>		9. WELL NO. <b>#20-1</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approx. 16 air miles west of moab</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat 001</b>
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>1000'</b>	16. NO. OF ACRES IN LEASE <b>4977.5</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec.20-T26S-R19E</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>N/A</b>	19. PROPOSED DEPTH <b>9320 MD/7081 TVD</b>	12. COUNTY OR PARISH <b>Grand</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>Ground 5633'</b>		13. STATE <b>Utah</b>
22. APPROX. DATE WORK WILL START* <b>February 24th, 1992</b>		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Set	20"	94# H-40	320'	530 sx C1-B
17-1/2"	13-3/8"	61# K-55	4110'	415 sx C1-B
12-1/4"	9-5/8"	53# S-95	7212'	1425 sx C1-G
	5-1/2"	20# S-95	9320'	(production liner)

See attached for the following supplemental information:

1. Eight Point Drilling Program
2. Multi-Point Surface Use Plan
3. BOPE Diagram
4. Certified surveyor's plat, cut & fill sheet & area topog.
5. Letter of certification.

RECEIVED

JUL 08 1991

DIVISION OF  
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED <u>Aline A. Reese</u>		TITLE <u>Regulatory Clerk</u>	DATE <u>7/2/91</u>
(This space for Federal or State office use)			
PERMIT NO. <u>43-019-31330</u>	APPROVAL DATE <u>APPROVED BY THE STATE</u>		
APPROVED BY _____		OF UTAH DIVISION OF	
CONDITIONS OF APPROVAL, IF ANY:		OIL, GAS, AND MINING	
		DATE: <u>8-25-92</u>	
		BY: <u>JAY Matthews</u>	

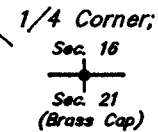
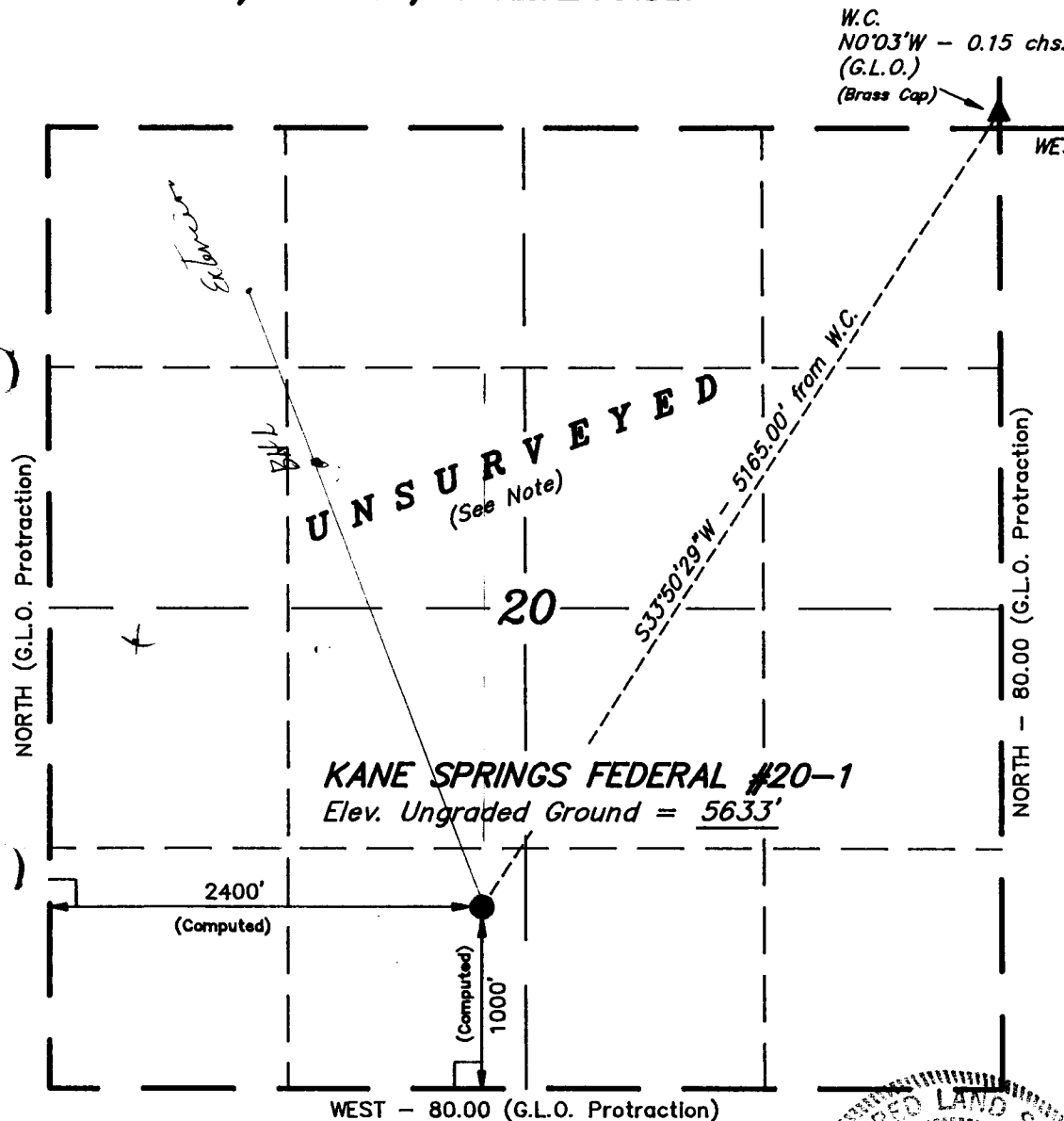
\*See Instructions On Reverse Side

WELL SPACING: 649-2-3

**T26S, R19E, S.L.B.&M.**

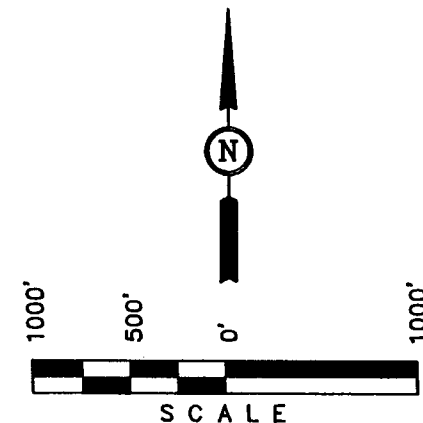
**COLUMBIA GAS DEVELOPMENT CORP.**

Well location, KANE SPRINGS FEDERAL #20-1, located as shown in the SE 1/4 SW 1/4 of Section 20, T26S, R19E, S.L.B.&M. Grand County, Utah.



**BASIS OF ELEVATION**

BENCH MARK SAN JUAN-GRAND CBM LOCATED IN SECTION 34, T26S, R19E, S.L.B.&M. TAKEN FROM THE KNOLL QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6003 FEET.



REVISED: 5-24-91 T.D.H.

**NOTE:**

EXCEPT FOR THE SCHOOL SECTIONS T26S, R19E, S.L.B.&M. IS UNSURVEYED. BEARING & DISTANCE INFORMATION FOR SECTION 20 WAS TAKEN FROM THE G.L.O. PROTRACTION DIAGRAM OF THIS TOWNSHIP AND THE WELL FOOTAGES WERE COMPUTED ACCORDINGLY.

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5798  
STATE OF UTAH

▲ = SECTION CORNERS LOCATED.

**UINTAH ENGINEERING & LAND SURVEYING**

**85 SOUTH 200 EAST - VERNAL, UTAH 84078**

**(801) 789-1017**

SCALE 1" = 1000'	DATE 5-17-91
PARTY J.T.K. B.D. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE COLUMBIA GAS DEV. CORP.

## **EIGHT-POINT DRILLING PROGRAM**

**COMPANY:** COLUMBIA GAS DEVELOPMENT CORPORATION  
**WELL NAME:** KANE SPRINGS FEDERAL #20-1  
**LOCATION:** 2400' FWL & 1000' FSL of Sec.20-T26S-R19E  
Grand County, Utah  
**ONSITE INSPECTION DATE:** May 21, 1991

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulation (43 CFR 3100), Onshore Oil & Gas Order No.1, and the approved plan of operations. A copy of these conditions will be furnished to the field representative to insure compliance.

### **A. DRILLING PROGRAM**

#### **1. Estimated Geologic Markers**

<b>Formation Tops</b>	<b>Depth</b>	<b>Subsea</b>	<b>RKB=26</b>
Wingate	Surface	+5630	
Chinle	266	+5390	
Cutler	1136	+4520	
Hermosa	2426	+3230	
Paradox Salt	4006	+1650	
Cane Creek	7056	-1400	

#### **2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals**

<b>Formation Tops</b>	<b>Depth</b>	<b>Subsea</b>	<b>Remarks</b>
Wingate	Surface	+5630	Fresh water
Cane Creek	7056	-1400	Oil

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected.

3. Operator's Minimum Specification for Pressure Control Equipment

The Moab District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing of BOPE.

A rotating head and blooey line will be rigged up on the conductor and surface pipe. See Exhibit C-1.

One (1) 2000 psi annular bag-type preventer will be utilized while drilling the surface hole.

One (1) 5000 annular bag-type and three (3) 5000 psi ram-type preventers will be utilized while drilling below the intermediate pipe. Ram preventers are to be tested to seventy percent (70%) of working pressure, or seventy percent (70%) of burst rating of intermediate pipe, whichever is less. Annular preventer is to be tested to fifty percent (50%) of working pressure - See exhibits C-2.

Choke Manifold will meet or exceed the requirements of the typical 5M manifold as in Onshore Order #2. See Exhibit C-3.

All BOPE and testing procedures will be consistent with API RP-53 and will be conducted before drilling out casing shoe. Preventers will be inspected and operated at least once daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report.

4. Casing Program and Auxiliary Equipment

The Moab District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

Surface pipe:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
0-320'	20"	94#	H40	STC	1530/7.3	520/3.7
					TENSION/SF	
					1077M#/1.8	

Set 50' into the Chinle. Cemented to Surface with 520sx Class B.

Intermediate Pipe:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
0-4110'	13-3/8"	61#	K55	STC	3090/1.25	1540/1.70



**TENSION/SF**  
633M/2.52

Cemented with 265sx lightweight plus 415sx Class B, with estimated top of cement at 3110'. Pressure test to 2160 psi before drilling out shoe.

Collapse design baseed on .22 psi/ft gradient. Burst design based on shoe test of 13.5 ppge less .1 psi/ft gradient.

Production Pipe:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
0-7212'	9-5/8"	53	S95	LTC	9410/2.01	8850/1.25

**TENSION/SF**  
1235M/4.29

Set 5' TVD into top of Cane Creek formation.

Cement w/1425 sx Class "G", with estimated top of cement at 4000'. Pressure test to 5000 psi before drilling out shoe.

Collapse design based on 1.0 psi/ft overburden gradient. Burst based on max. mud weight in offset wells (17.0 ppg) less .22 psi/ft oil gradient.

Production Liner:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
7160-9320'	5-1/2	20	S95	BTC	10680/NA	10680/1.71

**TENSION/SF**  
554M/17.1

Bottom 2110' to be pre-drilled with 3/4" holes, 3' apart at 90 deg. phase.

An isolation packer will be run on top of the liner.

Collapse design based on max. mud wt in offset wells (17.0 ppg).

Auxilliary Equipment:

- A. A Kelly cock will be kept in the string at all times.
- B. A stabbing valve will be kept on the derrick floor at all times.
- C. A float will not be used, other than when air drilling.

## 5. Proposed Mud Program

No chromates will be used in the well.

DEPTH	MUD WT	VIS	PV	YP	WL	TYPE MUD
0-320'	---	---	---	---	---	Air/Mist
320-4110'	---	---	---	---	---	Air/Mist
4110-7040	TVD 9.6	42-46	18	21	<10	Oil Base
7030-7067	TVD 9.6-12.5	42-46	18	21	<10	Oil Base
7067-7081	TVD 16.5	54-57	35	21	<4	Oil Base

## 6. Coring, Logging & Testing Program

- A. Drill Stem Tests: None planned.
- B. Well Logging & Intervals:

LOG	INTERVAL
Induction/Sonic/GR	4110-6657 TVD
MWD-Induction/GR	will be attempted in the horizontal section (6657-9320MD, 7081 TVD)

- C. Cores: A 30' oriented core will be attempted in the Cane Creek formation.

- D. Directional Surveys: This well as proposed will be drilled vertically to 6657' and then drilled as a medium radius horizontal well in the direction of N 52 W for a total displacement of 2421'. Inclination tests will be taken at 500' and 1000' max. intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum intervals. During the horizontal portion of the hole, surveys will be taken at 200' maximum intervals.

- E. Samples: samples will be taken at 10' intervals from 4110' to TD.

- F. There will be a mud logger on location from 4110' (below intermediate pipe) to TD.

- G. Completion Procedure: To be submitted on Form 5 under "Approval of Subsequent Operations."

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion

of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4.

7. Anticipated Abnormal Pressures, Temperatures or Potential Hazards

A. Abnormal pressure is anticipated in the Cane Creek formation. The proposed casing program and pressure control equipment has been designed based on the anticipated abnormal pressures of the Cane Creek formation.

B. Hydrogen Sulfide is not anticipated.

8. Notification of Operations & Other Information

A. Construction of Location is scheduled to start on February 24, 1992.

B. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from well to be placed in a suspended status without prior approval of the AO.

C. Spud date is scheduled for March 2, 1992. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or a holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

D. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revisions.

E. If replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Notification will be made no later than five (5) days following the date on which the well is placed on production.

Venting/Flaring of gas during initial well evaluation tests will not exceed a period of thirty days or the production of

50 MMCF of gas, whichever occurs first. An application will be filed with the District Engineer and approval received, for any Venting or Flaring beyond the initial 30 day authorized test period.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" will be filed with the AO within 30 days following completion of the well for abandonment operations.

There will be no deviation from the proposed drilling and/or workover program without prior approval of the AO. Safe drilling and operating practices will be observed.

This well, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

EXHIBIT C-1

20"  
BELL  
NIPPLE

20" ROTATING  
HEAD

10" BLOODEY LINE

TO RESERVE PIT

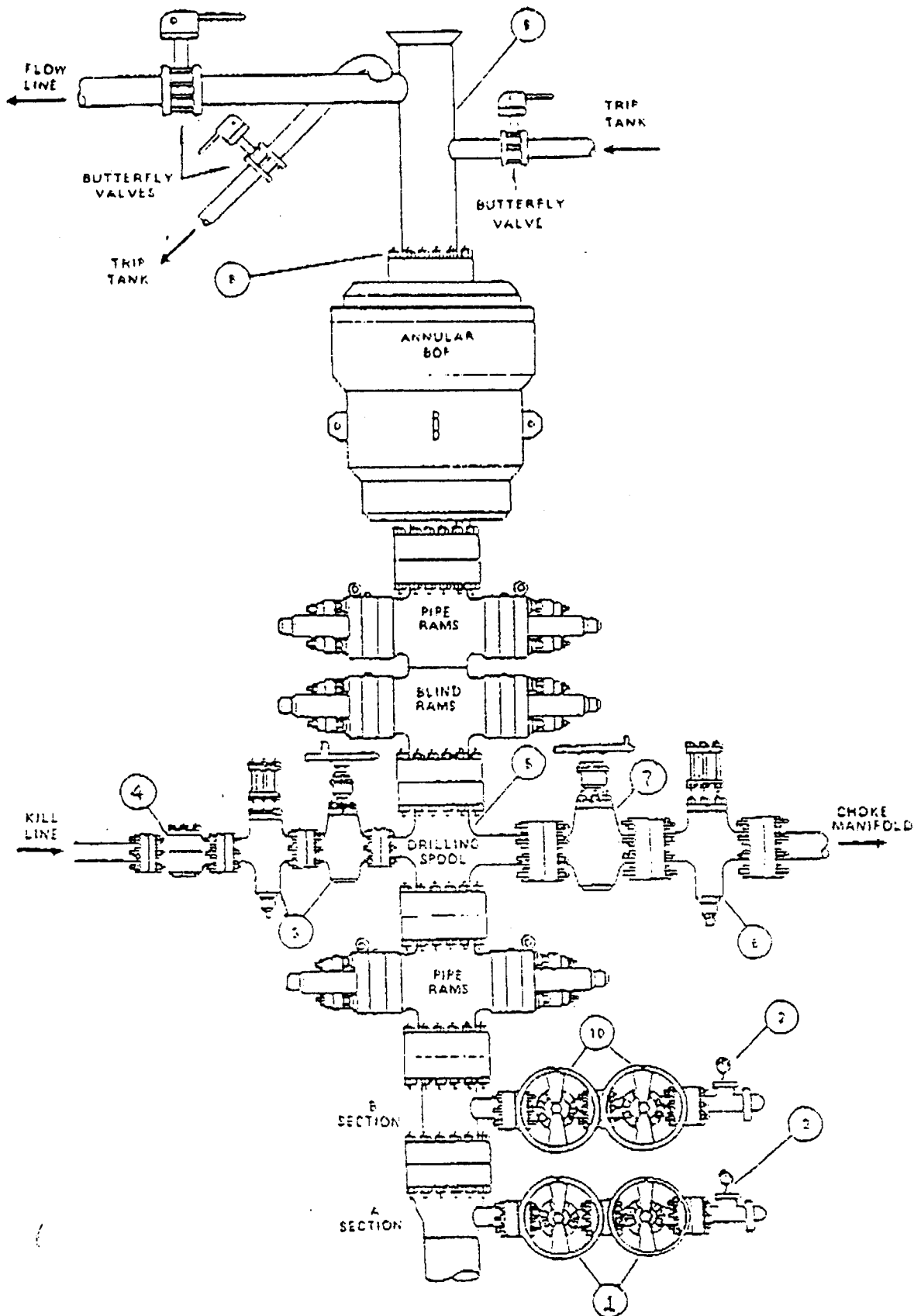
2000 PSI  
WORKING PRESSURE

20"  
ANNULAR

20" CASING HEAD  
5000 PSI WP

20"  
CASING

# EXHIBIT C-2



## COMPONENT SPECIFICATIONS

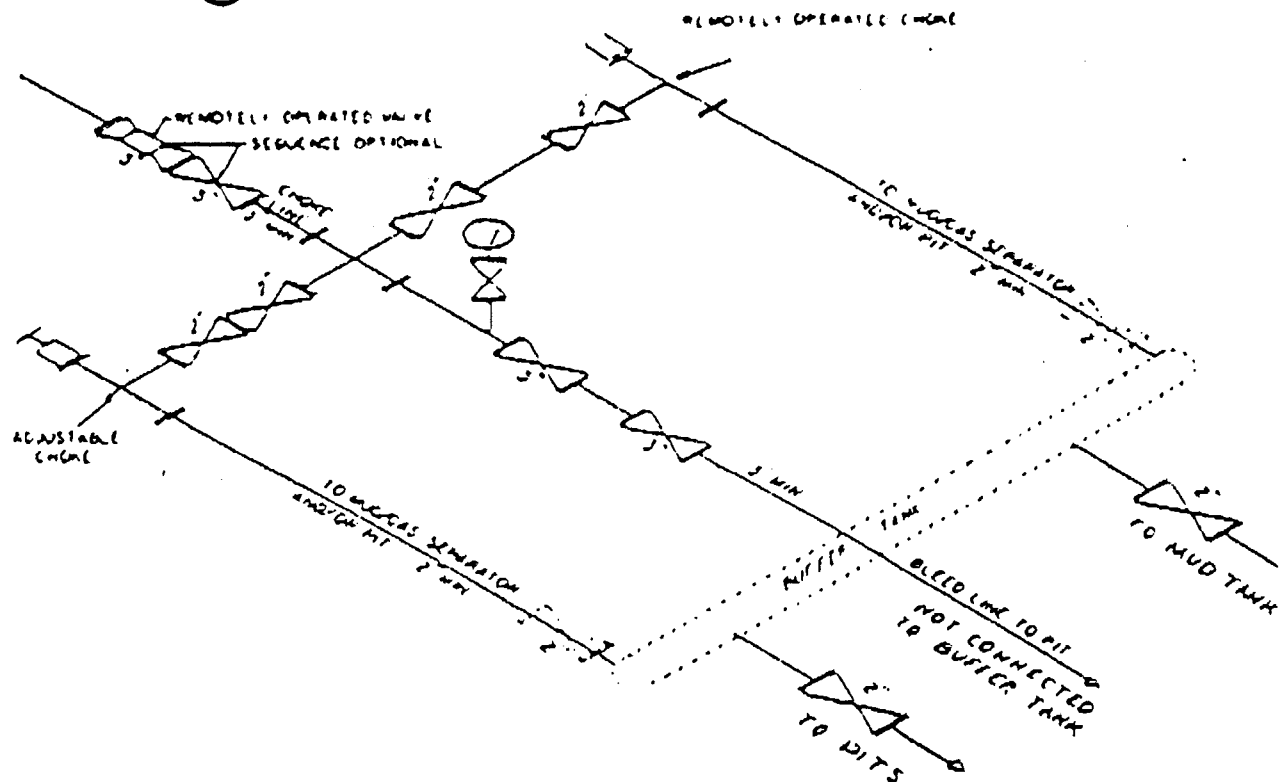
1. Screwed or flanged plug or gate valves — 2" minimum nominal dia. — same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge
3. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as BOP stack. Second valve up stream may be hydraulically controlled.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets — 3" choke and 2" kill line minimum nominal dia. (See Table II-4 and Note D.)
6. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack. (See Note D.)
7. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
9. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.
10. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as "B" section.

## NOTE:

The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.

Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type "F".

EXHIBIT  
C-3



### SM CHOKES MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of monitoring the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, or 15M drawings, it would also be applicable to those situations.

[PR Doc 88-22338 Filed 11-17-88; EAS att.]  
SM CHOKES MANIFOLD EQUIPMENT



**COLUMBIA GAS**  
Development



May 17, 1991

BUREAU OF LAND MANAGEMENT  
Grand Resource Area Office  
88 S. Sand Flats Road  
Moab, Utah 84532

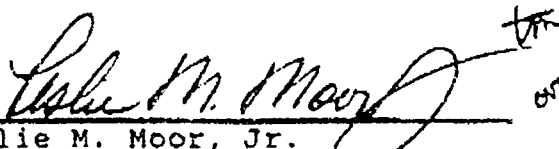
RE: COLUMBIA GAS DEVELOPMENT CORPORATION  
LETTER OF CERTIFICATION

Columbia Gas Development Corporation hereby certifies that it is  
the operator of the following wells:

Kane Springs Federal #28-1  
Kane Springs Federal #14-1  
Kane Springs Federal #20-1  
Kane Springs Federal #10-1

Columbia Gas Development Corporation shall be responsible for  
complying with the terms and conditions of the lease for all the  
operations conducted on the leased land.

Signed this 17<sup>th</sup> day of May, 1991.

  
Leslie M. Moor, Jr.  
Vice President, Drilling & Production

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

<b>COMPANY :</b>	Columbia Gas Development Corporation
<b>WELL NAME &amp; NUMBER:</b>	Kane Springs Federal #20-1
<b>LEASE NO.:</b>	U-54037
<b>LOCATION:</b>	2400' FWL & 1000' FSL - S.L.B&M
<b>SURFACE OWNERSHIP:</b>	Bureau of Land Management

## **NOTIFICATION REQUIREMENTS**

Notify Elmer Duncan of the Grand Resource Area, at (801)259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801)259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer      Office: (801)259-6111  
Home: (801)259-6239

Eric Jones, Petroleum Engineer      Office: (801)259-6111  
Home: (801)259-2214

If unable to reach the above individuals including weekends, holidays or after hours please call the following:

Lynn Jackson,  
Chief, Branch of Fluid Minerals      Office: (801)259-6111  
Home: (801)259-7990

**24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS**

ONSITE DATE: May 21, 1991

THIRTEEN POINT SURFACE USE PROGRAM

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

1. EXISTING ROADS

A. Existing road and location in relation to location submitted on Exhibit "A".

B. From Moab, Utah:

Travel north on 191 from Moab for approx. 11 miles - Turn left and travel on highway 313 for approx. 15.1 miles - Turn left onto existing access road and travel approx. 1.2 miles to proposed access road on left. Travel on proposed access for approx. .4 of a mile to location.

C. Description of roads in area: All weather asphalt & two wheel jeep roads.

2. PLANNED ACCESS ROADS

Existing access road will be re-routed around outer edge of pad.

A. Length: 1.2 existing dirt road (needs upgrading)  
.4 of a mile proposed access

B. Width: 18' running surface

C. Maximum Grades: N/A

D. Turnouts: None

E. Drainage Design: There will be minimum disturbance during drilling phase. If the well is a producer upgrading will be done as required.

F. Location and size of culverts and/or bridges, and brief description of any major cuts and fills: None

G. Surface Material Source: Native materials

H. Necessary gates, cattleguards, or fence cuts and/or modification to existing facilities:

All travel will be confined to existing access road.

I. Notification will be given to the Bureau of Land Manage-

ment, District Office, with sufficient lead time, prior to the construction of access road, and drill pad.

Access and location under the jurisdiction of the Bureau of Land Management.

- J. Columbia Gas Development Corporation will provide Dirt Contractor with necessary maps, pad and road construction plans.

### 3. LOCATION OF EXISTING WELL

Within a one mile radius of this proposed well there are no known:

Water wells, disposal wells, injection wells, monitoring wells or drilling wells, abandoned wells or completed wells.

### 4. LOCATION OF EXISTING AND PROPOSED FACILITIES

Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to construction of production facilities.

- A. If well is productive, new on-well pad facilities and lines will be submitted as "as built" under the following guidelines:

1. Tank battery and/or location will be surrounded by a dike of sufficient capacity to contain the contents of the largest vessel within the dike plus one day's production.
2. Facilities will be placed in cut as much as possible.
3. A wind-sock will be placed on the Tank battery so it is visible from all parts of the location.
4. All internal combustion engines associated with production facilities will be equipped with noise reducing mufflers.
5. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat non-reflective, earthtone color to match one of the standard environmental colors as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with O.S.H.A. will be excluded.

6. Fire prevention and suppression requirements for operations on Federal lands will be followed as per Bureau of Land Management guidelines.
7. No permanent above ground pipelines will be installed between the wellhead and treater or between the treater and flare pit.
8. All spills (production water or oil) or pipeline breaks outside the diked area will be reported within the 24 hours to the District office.

#### 5. LOCATION AND TYPE OF WATER SUPPLY

The necessary permits will be obtained by the operator from the appropriate State Water Rights Division office for the use of water at the drillsite.

Fresh water & salt water will be trucked by a local trucking company.

#### 6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside materials will be brought in.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

##### A. Methods and location of proposed safe containment and disposal of each type of waste material:

1. Cuttings will be deposited in the reserve pit.
2. Drilling fluids will be confined to mud tanks and reserve pit if necessary. At rig release, mud will be returned to supplier for storage.
3. Produced Water: While testing the well, all produced water will be contained in a storage tank. If well is a producer, a saltwater storage tank will be installed with tank battery.
4. Sewage will be disposed of according to county and state requirements in a portable chemical toilet or in a hole at least 15 deep excavated in the cut portion of the well pad.
5. Portable dumpsters will be used for all trash. All

trash will be hauled offsite.

- B. The Reserve pit shall be constructed so as not to leak, break, or allow discharge. The Reserve pit shall not be lined unless post construction inspection indicates a need to do so.
- C. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the ninety day period, in accordance with NTL-2B, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the authorized officer's approval.

#### 8. ANCILLARY FACILITIES

No camp, airstrip or other facility will be built during the drilling of this well.

#### 9. WELL SITE LAYOUT

A. See attachment for the Well Site Layout showing the following: Substructure, Engine, Mud pumps, Mud tanks, Diesel tank, Water Tank, Boiler, Light plant, Dog house, Bunk house, Pipe racks, Catwalk, Choke manifold, Accumulator, Derrick stand, Wireline, Mud mixer, Change house, Trailers, Trash bin, parts house, Mud manifold, Mud storage, Desander/Desilter, Winterizing or parts tub.

Also attached is a cross section diagram showing cuts & fills in relation to existing topography.

The location will be constructed large enough to accommodate the drilling rig and associated equipment with allowance made for future completion and production equipment.

No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below stripping depth.

B. Fencing requirements - All pits will be fenced according to the following minimum standards:

- 1. 30-inch net wire shall be used with at least one strand of barbed wire on top of the net wire.
- 2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of fence shall be 42-inches.

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

## 10. PLANS FOR RESTORATION OF SURFACE

### A. Production location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1
3. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within ninety (90) days from the date of well completion. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.
4. Seed mixtures to be used in rehabilitation will be provided by the BLM District Office. Seed mixtures will be certified weed free and seeding will be accomplished during the spring or fall. Seed tags will be submitted to the area manager within 30 days of seeding.
5. Site rehabilitation will be completed within six (6) months, weather permitting. Before any production facilities are constructed, a site rec-



lamation plan will be submitted to the District Office for all areas not required for production facilities.

B. Dry Hole/Abandoned Location

1. At such time as well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.
2. The location will be rehabilitated within six (6) months, weather permitting, from the date the well is plugged.

11. SURFACE OWNERSHIP

Surface location and access roads are owned by the United States of American under jurisdiction of the Bureau of Land Management.

12. OTHER INFORMATION

- A. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator will immediately stop work that further disturb such materials, and contact the authorized officer. Columbia Gas Development Corporation will comply with the requirements set forth by the BLM Surface Use Stipulations.
- B. Columbia Gas Development Corporation has a One Hundred and Fifty Thousand (150,000) dollar Nationwide Bond - copy attached.
- C. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.
- D. There will be no deviation from the proposed drilling program without prior approval from the District.

E. Sundry Notice & Report on wells (Form 3160-5) will be filed for approval of all changes of plans and other operations in accordance with 43 CFR 3164.

F. Dirt Contractor will be provided with an approved copy of the Surface Use plan.

G. Environmental Impacts.

1. Setting is approximately 16 air miles west of Moab, Utah.
2. Surface disturbance will be approximately 2.1 acres during the drilling phase and approximately 2.0 acres in the completion/production phase. The affected area has an estimated vegetation coverage of 5-10%. The topsoil will be replaced during abandonment procedures and reseeded. Surface impact will be temporary with no residual impacts. The surface area was moved as a result of the onsite meeting to reduce the amount of surface disturbance.
3. Visual impacts will be limited to the drilling phase. The top section of the derrick will be visible from Hwy 313 for approx. 50 days.
4. Audible impacts will be the greatest during the drilling and completion phases. Engine noise will be noticeable up to 3/4 mile during the drilling operations (estimated 50 days) and a 1/4 mile during the completion operations (estimated 10 days). Winterizing around engines will be installed.
5. Particulate impacts will be temporary and local if dry soil conditions exist during construction and heavy traffic periods. Fugitive dust will be controlled by watering the road as necessary during pad construction and periods of heavy traffic.
6. Recreational impacts are anticipated to be minimal. There will be approximately 44 truckloads of equipment to move the drilling rig in and the same number to move the rig out. Anticipated increased traffic other than moving the rig is 10-15 more vehicles per day during the drilling phase and 5-10 more vehicles per day during the completion phase. Increased traffic in the production phase will be one auto per day and three truckloads until a pipeline is installed. Other than some minimal increased traffic, recreation-

al impacts would be limited to the occasional hiker or biker.

H. Pipeline Right-of-Way:

1. A pipeline connection to the "Trunk Line" will be constructed alongside the same path as the access as indicated on attached map B.
2. The pipeline will be buried. The metering point will be on the production pad.
3. Length of pipeline will be 1.6 miles.
4. Western Gas Co. will construct the pipeline. The pipeline right-of-way will be assigned to Western upon issuance.

13. LESSEE'S OR OPERATOR REPRESENTATIVE AND CERTIFICATION

Columbia Gas Development Corporation  
P. O. Box 1350  
Houston, Texas 77251-1350  
713/871-3400

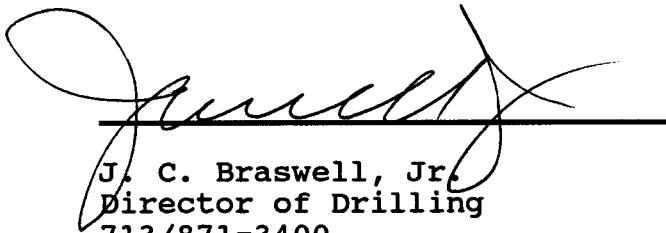
All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

**CERTIFICATION**

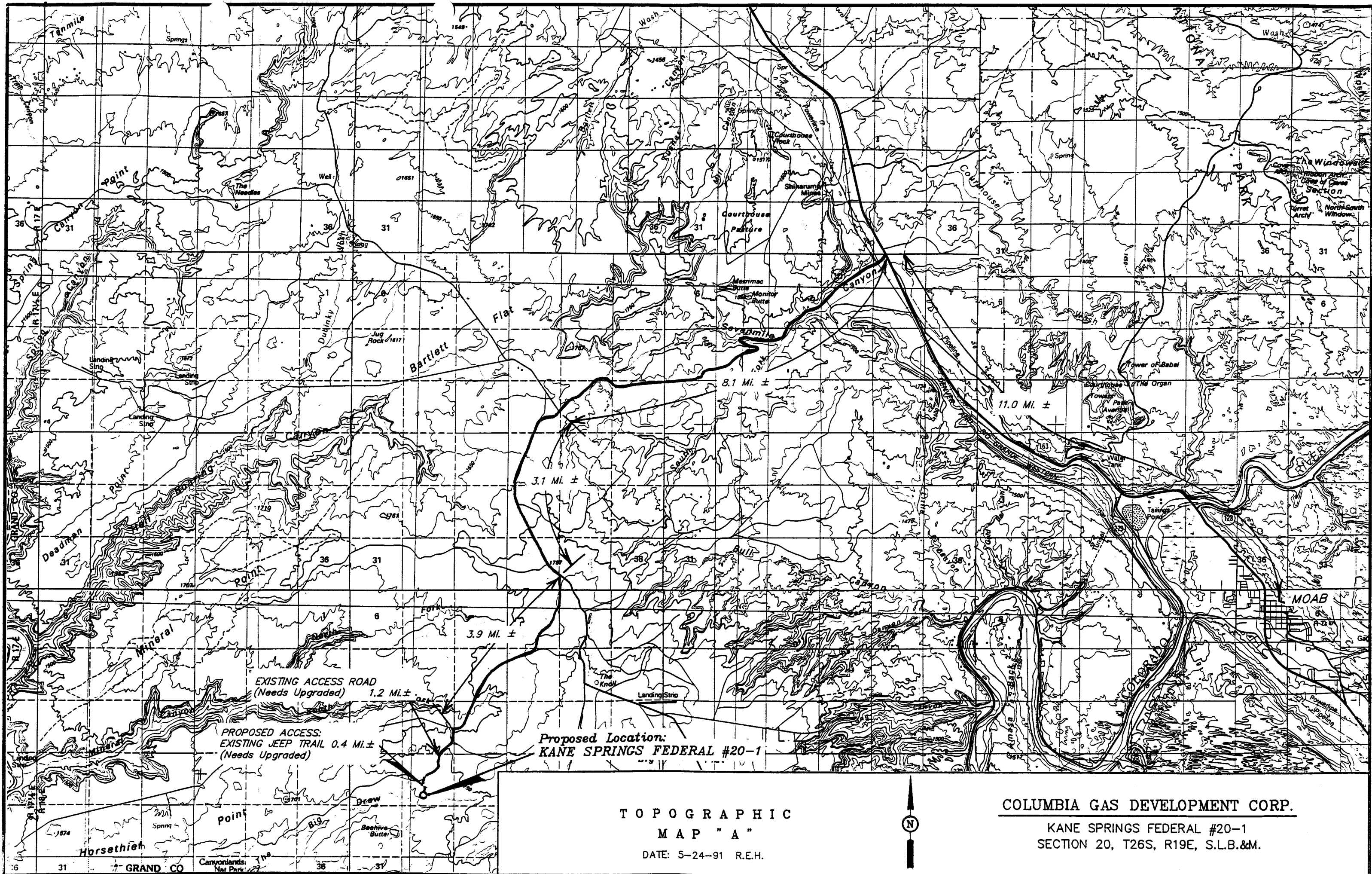
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Columbia Gas Development Corp. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM Bond # U-391050-16RR.

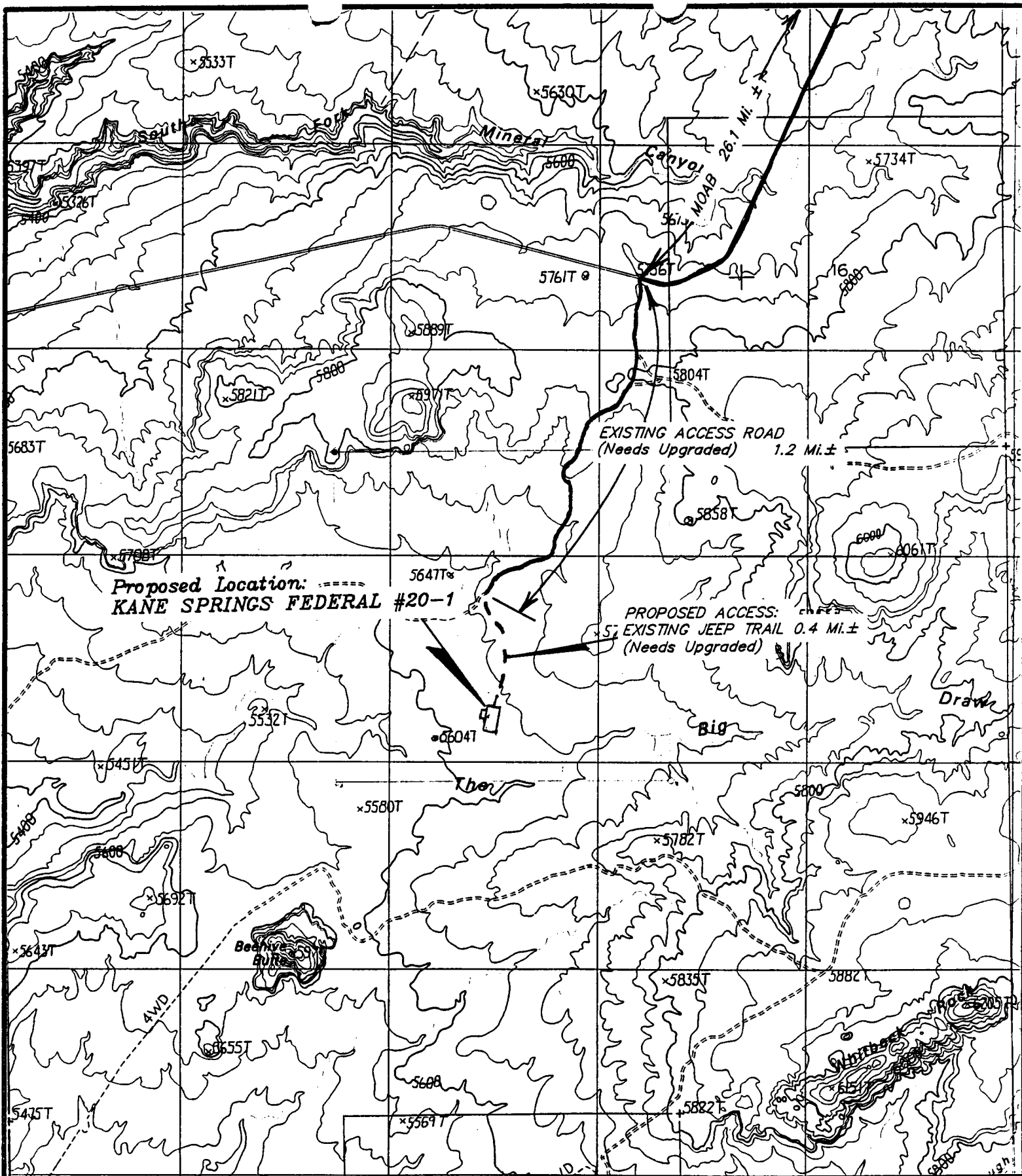
This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7/1/91  
DATE

  
J. C. Braswell, Jr.  
Director of Drilling  
713/871-3400







TOPOGRAPHIC  
MAP "B"

SCALE: 1" = 2000'  
DATE: 5-24-91 R.E.H.



COLUMBIA GAS DEVELOPMENT CORP.

KANE SPRINGS FEDERAL #20-1  
SECTION 20, T26S, R19E, S.L.B.&M.

**COLUMBIA GAS**  
Development



July 3, 1991

RECEIVED

JUL 08 1991

DIVISION OF  
OIL GAS & MINING

STATE OF UTAH NATURAL RESOURCES OIL,  
GAS & MINING  
355 W. NORTH TEMPLE, 3 TRIAD CENTER, STE. #350  
SALT LAKE CITY, UTAH 84180-1203

Attention: Mr. R. J. Firth

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRINGS FEDERAL #20-1**  
**SEC.20-T26S-R19E**  
**GRAND COUNTY, UTAH**

**KANE SPRINGS FEDERAL #14-1**  
**SEC.14-T26S-R19E**  
**GRAND COUNTY, UTAH**

Dear Mr. Firth:

Columbia Gas Development Corporation respectfully submits the enclosed applications for permit to drill regarding the above referenced locations for approval.

If you have any questions, or require any additional information, please contact me at 713/871-3482.

Sincerely,

**COLUMBIA GAS DEVELOPMENT CORPORATION**

A handwritten signature in cursive script, reading "Aline A. Reese".

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

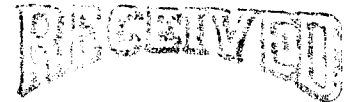


**COLUMBIA GAS**

Development



July 3, 1991



JUL 08 1991

DIVISION OF  
OIL GAS & MINING

STATE OF UTAH NATURAL RESOURCES OIL,  
GAS & MINING  
355 W. North Temple, 3 Triad Center, Ste. #350  
Salt Lake City, Utah 84180-1203

Attention: Ms. Tammy Searin

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRINGS FEDERAL #20-1**  
**SEC.20-T26S-R19E**  
**GRAND COUNTY UTAH**

**KANE SPRINGS FEDERAL #14-1**  
**SEC.14-T26S-R19E**  
**GRAND COUNTY, UTAH**

Dear Ms. Searin:

Pursuant to the Oil & Gas Conservation General Rule R615-3-3, Columbia Gas Development Corporation respectfully requests an exception to the location and siting of the above referenced locations. Due to the topography of the area, compliance with the four hundred and sixty foot (460') spacing from the quarter-quarter lines is not feasible.

Columbia Gas Development Corporation's leases include the four hundred and sixty foot distance from the quarter-quarter lines.

The Applications for Permits to Drill have been submitted to Mr. R. J. Firth's attention for processing.

Should you have any questions, or require any additional information, please contact me at 713/871-3400.

Sincerely,

**COLUMBIA GAS DEVELOPMENT CORPORATION**

A handwritten signature in cursive script, appearing to read "Aline A. Reese".

Aline A. Reese  
Regulatory Clerk



Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Timothy H. Provan  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF WILDLIFE RESOURCES

1596 West North Temple  
Salt Lake City, Utah 84116-3195  
801-538-4700  
801-538-4709 Fax

July 26, 1991

Ms. Carolyn Wright  
Office of Planning and Budget  
116 State Capitol  
Salt Lake City, UT 84114

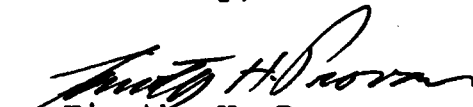
Subject: OGM Permit to drill Kane Springs Federal #20-1 well on  
Federal Lease U-54037 (UT910717-010)

Dear Carolyn:

This well site is in an area that should have no significant impact to wildlife. Bighorn sheep and other species are present in the canyon areas and we request a half-mile buffer be imposed around the canyon areas to keep disturbance and conflicts to a minimum.

Thank you for the opportunity to comment on this action.

Sincerely,

  
Timothy H. Provan  
Director

*Daniels, OGM*

*Copy of [unclear] and Ron Firth*

**RECEIVED**

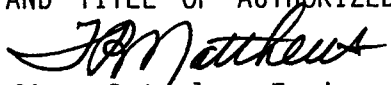
AUG 01 1991

DIVISION OF  
OIL GAS & MINING

*Frank Matthews*

STATE ACTIONS

Mail to:  
RDCC Coordinator  
116 State Capitol  
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY  
OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:  
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:  
February 24, 1992
4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:  
(to be sent out by agency in block 1)  
Southeastern Utah Association of Governments
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition  
☐ Land Sale ☐ Land Exchange ☐ Other \_\_\_\_\_
6. TITLE OF PROPOSED ACTION:  
Application for Permit to Drill
7. DESCRIPTION:  
Columbia Gas Development Corporation proposes to drill the Kane Springs Federal #20-1 well (wildcat) on federal lease U-54037, Grand County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)  
SE/4, SW/4, Section 20, Township 26 South, Range 19 East, Grand County, Utah
9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:  
See Attachment
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:  
Frank R. Matthews  
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL  
  
DATE: 7-15-91 Petroleum Engineer

TEMPORARY

RECEIVED FOR WATER IN THE

RECEIVED

Rec. by

Fee Rec.

Receipt #

Microfilmed

Roll #

MAY 20 1991

STATE OF UTAH

MAY 13 1991

APPLICATION TO APPROPRIATE WATER

SAIT LAKE

PRICE

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

\*WATER RIGHT NO. 01 - 1081

\*APPLICATION NO. A T65376

1. \*PRIORITY OF RIGHT: May 13, 1991 \*FILING DATE: May 13, 1991
2. OWNER INFORMATION  
 Name(s): Columbia Gas Development Corporation \*Interest: %  
 Address: P.O. Box 1350  
 City: Houston State: Texas Zip Code: 77251-1350  
 Is the land owned by the applicant? Yes No ☒ (If "No", please explain in EXPLANATORY section.)
3. QUANTITY OF WATER: cfs and/or 15.0 ac-ft.
4. SOURCE: Colorado River \*DRAINAGE:  
 which is tributary to  
 which is tributary to  
 POINT(S) OF DIVERSION: COUNTY: Grand  
 S. 1300 ft. & E. 1230 ft. from NW Cor. Sec. 26, T25S, R21E, SLB&M

Description of Diverting Works: Tank trucks from diversion point to well site

\*COMMON DESCRIPTION: Approx. 2 miles west of Moab Moab Quad

## 5. POINT(S) OF REDIVERSION

The water will be rediverted from at a point:

Description of Diverting Works:

## 6. POINT(S) OF RETURN

The amount of water consumed will be cfs or 15.0 ac-ft.

The amount of water returned will be cfs or ac-ft.

The water will be returned to the natural stream/source at a point(s):

## 7. STORAGE

Reservoir Name: Storage Period: from to

Capacity: ac-ft. Inundated Area: acres.

Height of dam: feet

Legal description of inundated area by 40 acre tract(s):

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JUN 20 1991

TEMPORARY

\* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rights which will supplement this application\_\_\_\_\_

9. NATURE AND PERIOD OF USE

Irrigation:	From_____	to_____
Stockwatering:	From_____	to_____
Domestic:	From_____	to_____
Municipal:	From_____	to_____
Mining:	From_____	to_____
Power:	From_____	to_____
Other:	From May 7, 1991	to May 6, 1992

10. PURPOSE AND EXTENT OF USE

Irrigation:\_\_\_\_\_acres. Sole supply of\_\_\_\_\_acres.  
Stockwatering (number and kind):\_\_\_\_\_  
Domestic:\_\_\_\_\_ Families and/or\_\_\_\_\_ Persons.  
Municipal (name):\_\_\_\_\_  
Mining:\_\_\_\_\_ Mining District in the\_\_\_\_\_ Mine.  
Ores mined:\_\_\_\_\_  
Power: Plant name:\_\_\_\_\_ Type:\_\_\_\_\_ Capacity:\_\_\_\_\_  
Other (describe): Dust suppression and drilling fluids for oil/gas exploration

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s):  
Bartlett Flat Field:  
1) Kane Springs Federal #19-1: SW $\frac{1}{4}$ SE $\frac{1}{4}$  Sec. 19, T25S, R20E, SLB&M  
2) Kane Springs Federal #10-1:  
N 500 ft. & E. 1000 ft. from SW Cor. Sec. 10, T25S, R18E, SLB&M (SW $\frac{1}{4}$ SW $\frac{1}{4}$ ).  
3) Kane Springs Federal #14-1:  
N. 1000 ft. & W. 1000 ft. from SE Cor. Sec. 14, T26S, R19E, SLB&M (SE $\frac{1}{4}$ SE $\frac{1}{4}$ ).

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary):  
Surface is owned by U.S. Government under the jurisdiction of the BLM.  
4) Kane Springs Federal #20-1:  
N. 1000 ft. & E. 2500 ft. from SW Cor. Sec. 20, T26S, R19E, SLB&M (SE $\frac{1}{4}$ SW $\frac{1}{4}$ ).  
5) Kane Springs Federal #28-1:  
N. 2000 ft. & W. 800 ft. from SE Cor. Sec. 28, T25S, R19E, SLB&M (NE $\frac{1}{4}$ SE $\frac{1}{4}$ ).  
6) Kane Springs State #36-1:  
N. 800 ft. & W. 1400 ft. from SE Cor. Sec. 36, T25S, R19E, SLB&M (SW $\frac{1}{4}$ SE $\frac{1}{4}$ ).

\*\*\*\*\*

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

J. C. Braswell, Jr.  
Signature of Applicant(s)\*  
J. C. Braswell, Jr. - (Director of

\*If applicant is a corporation or other organization, signature must be the name of such corporation or Drilling organization by its authorized agent, or in the name of the partnership by one of the partners.

\_\_\_\_\_  
Authorized Agent (please print)

\_\_\_\_\_  
Authorized Agent (signature)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

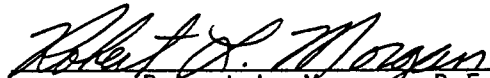
WATER RIGHT NUMBER: 01 - 1081

APPLICATION NO. T65376

1. May 13, 1991            Application received by MP.
2. June 18, 1991            Application designated for APPROVAL by MP and KLJ.
3. Comments:  
Please advertise this Temporary Appl. for one week, with a one week protest  
period.

Conditions:

This application is hereby APPROVED, dated June 19, 1991, subject to prior rights and this application will expire on June 19, 1992.

  
Robert L. Morgan, P.E.  
State Engineer

OPERATOR Columbia Gas Development 15035 DATE 7-15-91

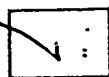
WELL NAME Kane Springs Federal 00-1

SEC N2SW 00 T 02S R 19E COUNTY Grand

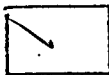
43-019-31330  
API NUMBER

Federal (1)  
TYPE OF LEASE

CHECK OFF:



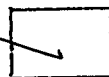
PLAT.



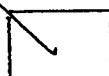
BOND



NEAREST  
WELL



LEASE



FIELD  
SLBM



POTASH OR  
OIL SHALE

PROCESSING COMMENTS:

Approved Unit -

Water Permit 01-1081 (TU5370)

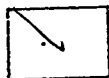
ROCC - 7-12-91

Potash

APPROVAL LETTER:

R615-2-3

SPACING:

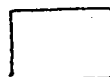


R615-2-3

Kane Springs  
UNIT



R615-3-2



N/A  
CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

CONFIDENTIAL

PERIOD

EXPIRED

ON 9-11-94

Potash area

**COLUMBIA GAS**  
Development



July 31, 1991

BUREAU OF LAND MANAGEMENT  
MOAB DISTRICT OFFICE  
P. O. BOX 970  
MOAB, UTAH 84532

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
BOPE REVISION

Dear Mr. Manchester:

As per our conversation of 7/30/91, please find enclosed Sundry Notices regarding the change in the BOPE for all locations currently being permitted.

If you have any questions, or require any additional information, please contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

cc: State of Utah Natural Resources Oil, Gas & Mining  
Mr. R. J. Firth

**RECEIVED**

AUG 05 1991

DIVISION OF  
OIL GAS & MINING



## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Kane Springs Fed. Unit

8. FARM OR LEASE NAME

Kane Springs Federal

9. WELL NO.

#20-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec.20-T26S-R19E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

14. PERMIT NO.

N/A

15. ELEVATIONS (Show whether DT, RT, GA, etc.)

Ground 5633

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) BOPE REVISION(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Notification of BOPE revision was given to Fred Oneyear on  
7/18/91

The BOP equipment used will be 13-5/8" 10M# which is an  
upgrade from the previous equipment of 13-5/8" 5M# shown  
in the APD submitted.

Consequently the cross will not be used due to lack of  
sufficient height. Kill line & choke line will be nipped  
up to side outlets below blind rams and above lower pipe  
rams.

RECEIVED

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

AUG 05 1991

DATE: 8-7-91 DIVISION OF  
BY: [Signature] OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct:

SIGNED

Aline A. ReeseTITLE Regulatory ClerkDATE 7/31/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Form 3160-3  
(November 1983)  
(formerly 9-331C)

SUBMIT IN 1 LOCATE  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

2. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER (horizontal) SINGLE ☐

MULTIPLE ☐

3. NAME OF OPERATOR

Columbia Gas Development Corporation 713/871-3400

4. ADDRESS OF OPERATOR

P. O. Box 1350 Hou., TX. 77251-1350

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

At proposed prod. zone

FWL  
1186' FSL & 2265 FSL of Sec.20-T26S-R19E

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

Approx. 16 air miles west of moab

7. DISTANCE FROM PROPOSED

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

1000'

8. NO. OF ACRES IN LEASE

4977.5

9. NO. OF ACRES ASSIGNED  
TO THIS WELL

920

10. DISTANCE FROM PROPOSED LOCATION  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

11. PROPOSED DEPTH

9320 MD/7081 TVD

12. ROTARY OR CABLE TOOLS

Rotary

13. ELEVATIONS (Show whether DF, RT, OR, etc.)

Ground 5633'

14. APPROX. DATE WORK WILL START

February 24th, 1992

15.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
--------------	----------------	-----------------	---------------	--------------------

RECEIVED

AUG 24 1992

DIVISION OF  
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

16.

SIGNED

*Aline A. Reese*

TITLE Regulatory Clerk

DATE 7/2/91

(This space for Federal or State office use)

PERMIT NO.

43-019-31330

APPROVAL DATE

/S/ WILLIAM C. STRINGER

Assistant District Manager

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE for Minerals

DATE AUG 10 1992

FLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A

CONDITIONS OF APPROVAL ATTACHED

and 1/1/80

\*See Instructions On Reverse Side

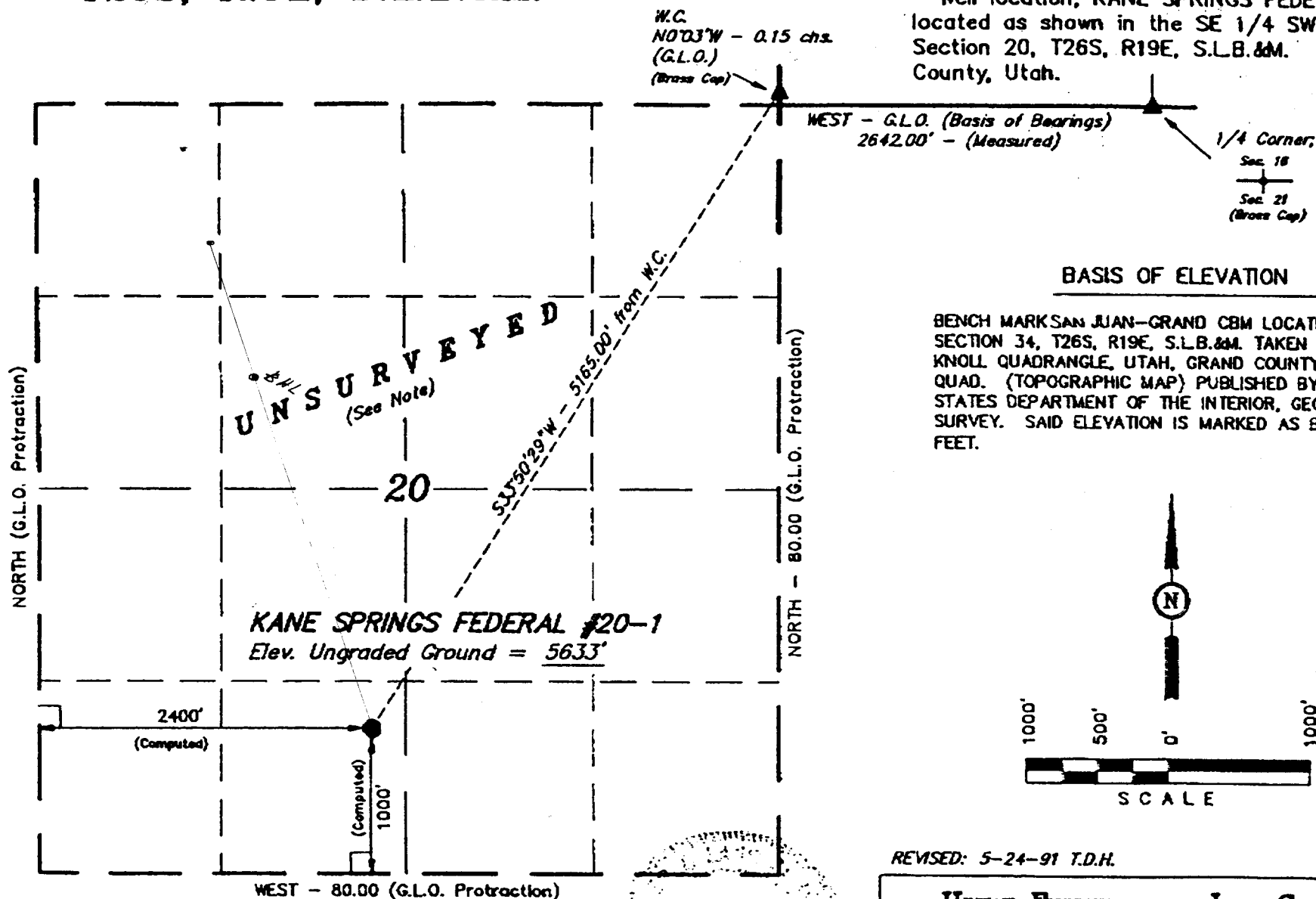
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

2

T26S, R19E, S.L.B.&amp;M.

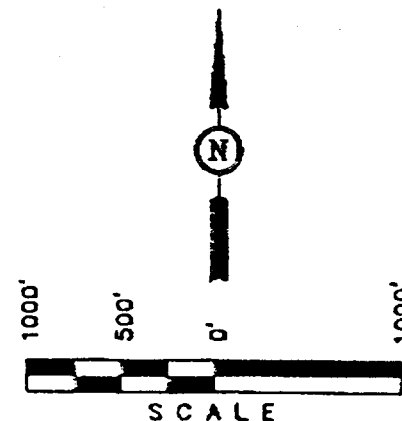
## COLUMBIA GAS DEVELOPMENT CORP.

Well location, KANE SPRINGS FEDERAL #20-1,  
located as shown in the SE 1/4 SW 1/4 of  
Section 20, T26S, R19E, S.L.B.&M. Grand  
County, Utah.



## BASIS OF ELEVATION

BENCH MARK SAN JUAN-GRAND CBM LOCATED IN  
SECTION 34, T26S, R19E, S.L.B.&M. TAKEN FROM THE  
KNOLL QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE  
QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED  
STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL  
SURVEY. SAID ELEVATION IS MARKED AS BEING 6003  
FEET.



## NOTE:

EXCEPT FOR THE SCHOOL SECTIONS  
T26S, R19E, S.L.B.&M. IS UNSURVEYED.  
BEARING & DISTANCE INFORMATION FOR  
SECTION 20 WAS TAKEN FROM  
THE G.L.O. PROTRACTION DIAGRAM OF  
THIS TOWNSHIP AND THE WELL FOOTAGES  
WERE COMPUTED ACCORDINGLY.

▲ = SECTION CORNERS LOCATED.

## CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH

REVISED: 5-24-91 T.D.H.

UTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE 5-17-91	
PARTY J.T.K. B.D. T.D.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE COLUMBIA GAS DEV. CORP.	

CONFIDENTIAL

Columbia Gas Development Corp.  
Kane Spring Fed. No. 20-1  
SESW Sec. 20, T. 26 S., R. 19 E.  
Grand County, Utah  
Lease U-54037

### **CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Columbia Gas Development Corp., is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by CO0356 (Principal - Columbia Gas Development Corp.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. A one-time, 90 day extension of this period may be granted. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

#### **A. DRILLING PROGRAM**

1. There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

2. No trivalent or hexavalent chromate additives shall be used in the mud system. Due to potential for contamination of usable quality water aquifers, chromates are banned from Federal leases.

3. A 2000 lb. 20 inch annular preventer and BOP system shall be installed, tested and in working condition prior to drilling through the surface casing shoe according to Onshore Order No. 2 specifications.

4. As stated under item No. 3 (BOP tests) ram preventers are to be tested to seventy percent (70%) of working pressure, or seventy percent (70%) of the burst rating of the intermediate pipe, whichever is lesser. To be in compliance with the minimum requirements of Onshore Order No. 2., ram preventers shall be tested to the approved stack working pressure if isolated by a test plug or to 70% of internal yield pressure of casing if the BOP stack is not isolated from the casing.

5. BOP systems shall be consistent with API RP 53 and Onshore Oil and Gas Order No. 2. Pressure tests of the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Ram preventers shall be inspected and operated each trip (no more than once a day is necessary), and annular preventers shall be inspected and operated weekly to ensure good mechanical working order. These inspections shall be recorded on the daily drilling report.

6. When the completion program is determined, a sundry notice describing the completion shall be submitted to this office for approval.

7. Should the well become productive, the BLM, District Office must be notified no later than five business days after production begins. Notification shall be by letter or sundry notice, or orally to be followed by a letter or sundry notice.

8. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever comes first, without prior written approval of the Authorized Officer. Surface casing shall have centralizer on each of the bottom three joints.

9. Surface casing shall be set 50 feet into the Chinle Formation regardless of the depth the Chinle is encountered.

10. Intermediate casing shall be set 50 ft into the second clastic zone within the Paradox Formation regardless of the depth this zone is encountered.

11. To determine cement top and bond quality, a cement bond log (CBL) or cement evaluation tool (CET) shall be run after the 13 3/8" and the 9 5/8" casings are run and cemented in place.

12. As proposed, the horizontal portion of the well is to be drilled from a KOP at 6657 ft MD in a direction of N 52.0°W. The bearing of the hole shall not deviate more than  $\pm 10^\circ$  without prior approval from the authorized officer.

## **B. SURFACE USE PLAN**

1. Employees will be notified that under the authority of 43 CFR 8365.1-2, camping stays within BLM's Moab District are limited to 14 days within a 10 mile radius during any 28 day period. Personal property may not be left unattended on public lands for more than 48 hours without written permission.
2. No construction or drilling operations will be authorized between February 1 and July 15, unless additional raptor surveys are completed prior to conducting operations to identify and avoid raptor nesting sites within 1/2 mile of the proposed action. Any peregrine falcon nesting areas identified within the project area will be avoided by 1 mile.
3. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer. Within five working days the authorized officer will inform the operator as to:
  - whether the materials appear eligible for the National Register of Historic Places;
  - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
  - a timeframe for the authorized officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the authorized officer are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the authorized officer will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The authorized officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the authorized officer that the required mitigation has been completed, the operator will then be allowed to resume construction.

4. If drilling water is obtained from a source identified as a water depletion of the Upper Colorado River, the operator will be required to pay a water depletion charge for the number of acre-feet removed from the Colorado River. As specified in the Biological Opinion, "reasonable and prudent measures" will be utilized to prevent incidental take of fish when pumping water from the Colorado river channel. These measures include use of screening to cover the intake hose. The screen mesh will not exceed 1/8 inch during periods when young are known to drift (May 15 through July 30). During the remainder of the year, screen mesh will not exceed 1/4 inch. Intake hoses will not be placed in low-velocity portions of the river and water will be taken from fast current areas.
5. An encroachment permit will be required from the Grand County Road department prior to maintaining or upgrading county roads.

6. Surface disturbance and vehicular travel will be limited to the approved location and access route. Any additional area needed will be approved in advance. Surface material will not be placed on the access road or location without prior BLM approval.
7. Access (ingress and egress) will be controlled by appropriate signs as needed along the road.
8. The access road and well pad will be sprinkled with water as needed to control dust.
9. During night-time drilling, all lights that can be modified within safety standards should be shielded from major viewsheds and their intensity minimized.
10. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6. When the well is plugged and abandoned, a plate with the information required in 43 CFR 3162.6 will be installed over the wellbore to lie horizontal with the ground surface.
11. In addition to procedures identified in the APD, these requirements will be followed during construction and reclamation of the reserve pit:
  - a. The reserve pit will be lined with bentonite unless specifications for an alternate method of lining are approved by the authorized officer.

Bentonite will be spread to a uniform depth over the reserve pit at an application rate of not less than 5 pounds per square foot. No bulk bentonite will be distributed when winds exceed 10 mph, and no sacked bentonite will be spread when winds exceed 20 mph unless approved in writing by the authorized officer.

After bentonite has been uniformly applied over the reserve pit, the bentonite will be thoroughly mixed with the underlying soil to a depth of 4 inches. Disking, rototilling, or a similar technique will be used to mix the bentonite with the soil. A minimum of two passes at right angles to each other will be made at the full depth of mixing.

If a synthetic liner is used, liner will be designed and installed in such a manner to assure it will not be punctured during installation or drilling operations.

- b. Upon completion of drilling operations, the reserve pit will be de-watered. Depending on the conditions at the time of disposal, the waste water will be (a) disposed of off-site at an approved disposal facility, (b) reinjected with the appropriate Underground Injection Control Permit from the State Division of Oil, Gas and Mining with concurrent approval by the Bureau of Land Management, Moab District Office, or (c) allowed to evaporate.
- c. The remaining reserve pit solids will be tested prior to stabilization. At least three samples will be taken from different areas of the pit. These samples will be analyzed by an independent laboratory for salt properties (electrical conductivity, sodium adsorption ratio and exchangeable sodium percentage), heavy metal content and oil and grease content. The results of these tests will be provided to the Moab District Office within 30 days of analysis.



- d. The reserve pit contents will then be mixed with fly ash, kiln dust, or bentonite to stabilize the salt adhered to the cuttings. Quantities of the mixing agent will be sufficient to assure the physical properties of the stabilized pit are similar to the physical properties of the native subsoils.
  - e. The mixed contents will be sampled and tested for leachability of salts and heavy metals. There will be a minimum of 5 samples taken from the mixed pit remains. The samples will come from each corner section of the pit and from the middle. These samples will also be analyzed by an independent laboratory. The results of this testing will be provided to the Moab District Office within 30 days of analysis.
  - f. If a synthetic liner is used, the remaining liner material will be folded over the edges of the mixed contents of the pit.
  - g. The mixed pit contents will be covered by a minimum of one foot of native subsoils. If required, a thicker application may be allowed to bring the top of this cap nearly up to grade. The pit will then be allowed to set up for a minimum of 5 days prior to additional work on the pit involving the bentonite cap.
  - h. A bentonite cap will be applied to the top of the pit. The bentonite will be a commercial grade and will be mixed with the native subsoils at the rate of 2-4 pounds per square foot of coverage. The cap will be at least 1 foot thick in the middle and grade to no less than 6 inches on the sides. The bentonite and subsoil mixture will be disked in to assure maximum effectiveness of the impervious cap. The cap will be crowned at the middle to allow proper drainage. The cap will extend at least 10 feet beyond the original pit boundaries to allow drainage away from the pit and prevent leaching of salts and heavy metals.
  - i. The bentonite cap will then be covered with approximately 2 feet of subsoil and topsoil. The intent is to bring the topsoil and subsoil mixture including the cap slightly above grade with enough soil to allow for revegetation and compensate for settling.
  - j. The Grand Resource Area Office will be kept informed of the timetables for all operations described above so that they can be witnessed.
12. At the end of drilling operations and prior to reclamation of the reserve pit, the fourth side of the pit will be fenced and the top of the pit will be covered with netting of one inch or less to prevent access by birds.
13. During production, topsoil stockpiles will be spread over the reclaimed portions of the well pad, contoured and seeded. A portion of this topsoil would later be used for rehabilitation of the remaining portion of the well pad when it is abandoned.
14. A conference will be held with the Grand Resource Area prior to installing production facilities. The conference will be utilized to maximize the screening abilities of nearby ridges, vegetation and sandstone outcrops. A flat, nonreflective, earthtone color will be specified for the production facilities at the conference.

15. Columbia will evaluate the feasibility of low-visibility flaring systems and incorporate the design into the production facilities if economically practical.
16. All site security guidelines identified in 43 CFR 3162.7-5 regulations will be followed.
17. All off-lease storage, off-lease measurement, or commingling (on-lease or off-lease) shall have prior written approval from the Assistant District Manager.
18. Prior to construction of pipelines, a plan or plans of development that describe in detail the construction, operation, maintenance, and termination of the right-of-way and its associated improvements and/or facilities. The degree and scope of these plans will vary depending upon (1) the complexity of the right-of-way or its associated improvement and/or facilities, (2) the anticipated technical information required by the authorized officer. The plans will be reviewed and, if appropriate, modified and approved by the authorized officer. An approved plan of development shall be made a part of the right-of-way grant.
19. In the event the road is graveled or surfaced, the material will be removed prior to recontouring the surface for rehabilitation.
20. The disturbed area will be recontoured and the topsoil will be spread over the recontoured area.
21. The surface will be scarified or ripped to a depth of 4 inches. The scarification will be perpendicular to the slope to intercept and retain runoff.
22. The area will be seeded at a time determined by the authorized officer using a pure live seed mixture as follows:

Indian Ricegrass	2 lbs/acre
Sand Dropseed	1 lbs/acre
Needle-and-thread	2 lbs/acre
Galleta	1.5 lbs/acre
Scarlet globemallow	0.5 lbs/acre
Lewis flax	1 lbs/acre
Torrey Mormon Tea	1 lbs/acre
Winterfat	1.5 lbs/acre

If the seed is broadcast, the above rates will be doubled.

23. The reseeded well pad will be fenced with 4 strands of barbed wire. The fence will be maintained until a vegetative cover is established to control erosion and to blend into the surrounding landscape, and then the operator will remove the fence.

### **C. REQUIRED NOTIFICATIONS AND APPROVALS**

Required verbal notifications are summarized in Table 1, attached.

**Spud-** Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District office within twenty-four (24) hours after spudding (regardless of whether spud was made with a dry hole digger or big rig). If the spudding occurs on a weekend or holiday, the written report will be submitted on the following work day.

**Daily Drilling Reports-** Daily drilling reports shall detail the progress and status of the well and shall be submitted to the District office on a weekly basis.

**Undesirable Events/Immediate Reports-** Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the Resource Area in accordance with requirements of NTL-3A.

**Cultural Resources-** If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

**Drilling Suspensions-** Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

**First Production-** Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

**Well Completion Report-** Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and /or gas) will be submitted when requested by the Assistant District Manager.

**Plugging and Abandonment-** If the well is completed as a dry hole, plugging instructions must be obtained from the BLM, Moab District Office prior to initiating plugging operations. Table 1 of this document provides the after-hours phone numbers of personnel who are authorized to give plugging instructions.

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

"Fed" or "Ind", as applicable. "Well number, location by 1/4 1/4 section, township and range". "Lease number".

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

**Venting/Flaring of Gas-** NTL-4A allows venting/flaring of gas during the initial well evaluation period not to exceed 30 days or 50 Mmcft. Venting/flaring beyond the initial test period threshold must be approved by the District Office.

**Off-Lease Measurement, Storage, Commingling-** Prior approval must be obtained from the Assistant District Manager for off-lease measurement, off-lease storage or commingling (either down-hole or at the surface).

## TABLE 1

### NOTIFICATIONS

Notify Elmer Duncan or Rich McClure of the Grand Resource Area, at (801) 259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamations;

1 day prior to spudding;

50 feet prior to reaching surface and intermediate casing depths;

3 hours prior to testing BOP's;

12 hours prior to reaching kickoff point depth;

24 hours prior to closing the reserve pit.

If the person(s) at the above number cannot be reached, notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If unsuccessful, then notify one of the following people listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Dale Manchester, Petroleum Engineer      Office Phone: (801) 259-6111

Home Phone: (801) 259-6239

Eric Jones, Petroleum Engineer      Office Phone: (801) 259-6111

Home Phone: (801) 259-2214

If unable to reach the above individuals including weekends, holidays, or after hour please call the following:

Lynn Jackson,  
Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS



Norman H. Bangertter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

365 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

August 25, 1992

Columbia Gas Development Corporation  
P.O. Box 1350  
Houston, Texas 77251-1350

Gentlemen:

Re: Kane Springs Federal #20-1 Well, 1000 feet from the south line, 2400 feet from the west line, SE 1/4 SW 1/4, Section 20, Township 26 South, Range 19 East, Grand County, Utah

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

Page 2  
Columbia Gas Development Corporation  
Kane Springs Federal #20-1 Well  
August 25, 1992

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-019-31332.

Sincerely,



R.J. Firth  
Associate Director, Oil and Gas

Idc  
Enclosures  
cc: Bureau of Land Management  
J.L. Thompson  
WOI1



February 3, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Attn: R. J. Firth  
355 W. N. Temple  
3 Triad Center, Ste. 350  
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation  
Kane Springs #20-1, Sec.20-T26S-R19E  
Kane Springs #36-1, Sec.36-T25S-R19E  
Grand County, Utah**

Gentlemen:

Please find Sundry Notices requesting a one year extension to the drilling permits for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*  
Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

MAR 05 1993

DIVISION OF  
OIL GAS & MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. 54037
2. Name of Operator Columbia Gas Development Corporation	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. P. O. Box 1350, Houston, Texas 77251-1350	7. If Unit or CA, Agreement Designation Kane Springs Federal Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2400' FWL & 1000' FSL of Sec.20-T26S-R19E	8. Well Name and No. Kane Springs Fed. 20-1
	9. API Well No. 43-019-31332
	10. Field and Pool, or Exploratory Area Wildcat
	11. County or Parish, State Grand County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Request for extension of permit</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Columbia Gas Development Corporation respectfully requests a one year extension to the drilling permit for the above-referenced well. Current permits are due to expire on 8/19/93 (BLM) and 8/25/93 (State). We are continuing to evaluate information from the wells already drilled and need the additional information to be gained from the 34-1, 18-1, and 21-1 wells before a final decision is made on the drilling of this well. Current plans are to drill this well in next year's drilling program.

ACCEPTED BY THE STATE  
OF UTAH  
CIL  
DATE: 3-8-93  
BY: J. Matthews

RECEIVED

MAR 05 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed <u>Wendy L. DeCharme</u>	Title <u>Regulatory Coordinator</u>	Date <u>3/2/93</u>
---------------------------------	-------------------------------------	--------------------

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



**VIA AIRBORNE EXPRESS**

April 21, 1993

Bureau of Land Management  
Attention: Eric Jones  
82 E. Dogwood  
Moab, Utah 84532

State of Utah  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

**Reference: Columbia Gas Development Corporation  
Kane Springs #20-1  
Sec.20-T26S-R19E  
Grand County, Utah**

Gentlemen:

Please find attached a Sundry Notice and revised location layout for the above-referenced well. The location size was increased slightly to accommodate the rig and the agreed upon pit design used on the last two wells.

Should you have any questions or require any additional information, please contact me at 713/871-3482.

Sincerely,

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

APR 22 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
UTU-54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. 20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350 (713) 871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Location Layout Revision  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The attached location layout reflects an increased location size to accomodate the rig and the agreed upon pit design used on the last 2 wells.

Columbia will temporarily reroute the 2-track road around the east side of the location during drilling operations,

As part of the upgrade to the road, shale will be applied to approximately 5000' of the road. All work will be within the previously approved 34' area of disturbance.

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE:

4-22-93

BY:

*J. A. Patterson*

RECEIVED

APR 22 1993

DIVISION OF

OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy A. DeLoe*

Title

Regulatory Coordinator

Date

4/21/93

(This space for Federal or State office use)

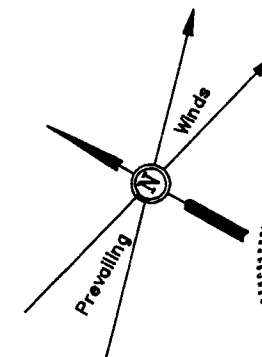
Approved by

Conditions of approval, if any:

Title

Date

LOCATION LAYOUT FOR  
KANE SPRINGS FEDERAL #20-1  
SECTION 20, T26S, R19E, S.L.B.&M.

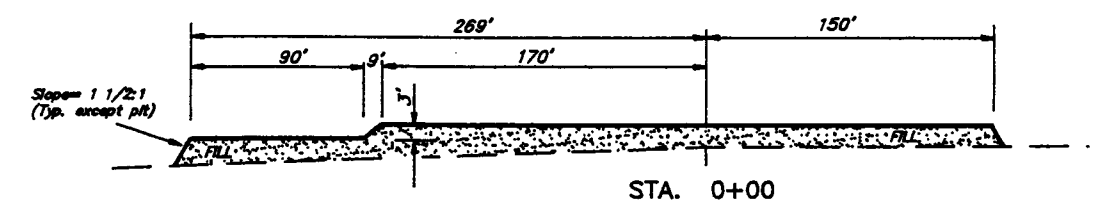
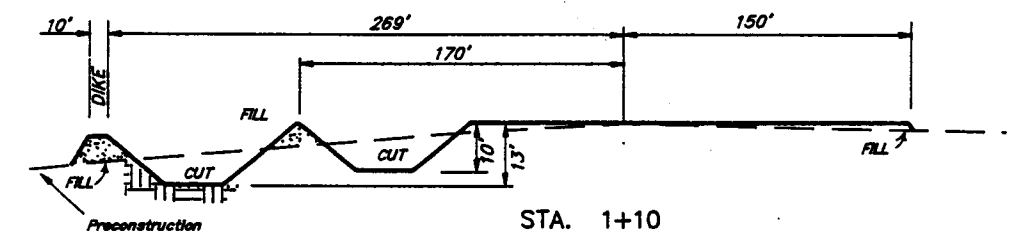
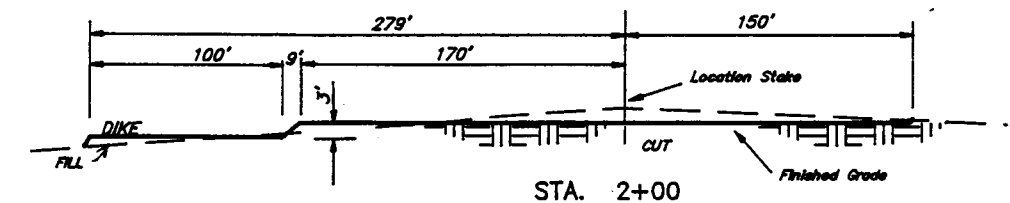
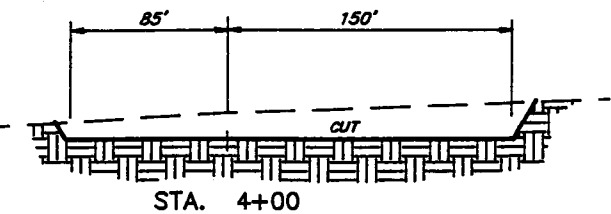


Approx.  
Top of  
Cut Slope

1" = 40'

X-Section  
Scale

1" = 100'



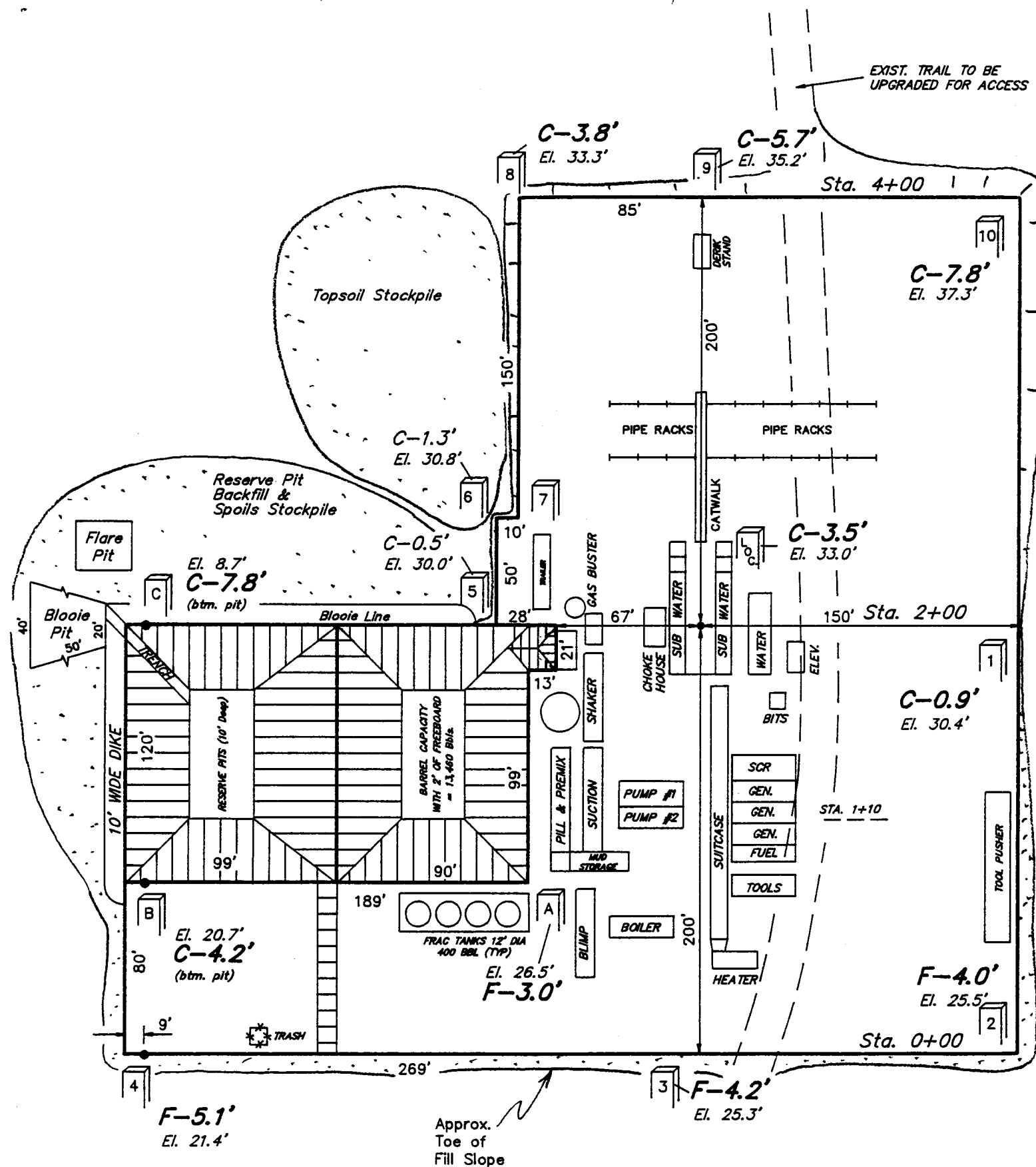
<b>TYP.</b>	<b>CROSS</b>
<b>LOCATION</b>	<b>SECTIONS</b>
<b>LAYOUT</b>	

CUT	
(6") Topsoil Stripping	= 2,400 Cu. Yds.
Remaining Location	= 10,040 Cu. Yds.
TOTAL CUT	= 12,440 CU.YDS.
FILL	= 7,850 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 4,180 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,180 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

Elev. Ungraded Ground At Loc. Stake = **5633.0'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **5629.5'**

UINTAH ENGINEERING & LAND SURVEYING  
85 South 200 East      Vernal, Utah





**RECEIVED**

MAY 07 1993

DIVISION OF  
OIL GAS & MINING

VIA AIRBORNE EXPRESS

May 6, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Attn: R. J. Firth  
355 W. N. Temple  
3 Triad Center, Ste. 350  
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T26S-R19E  
Grand County, Utah

Gentlemen:

Please find attached a Sundry Notice reporting proposed changes in the bottomhole location, casing and cementing program, and geologic markers for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

54037

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P.O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHED FOR CHANGES IN:

- 1) BOTTOMHOLE LOCATION
- 2) CASING AND CEMENTING PROGRAM
- 3) ESTIMATED GEOLOGIC MARKERS
- 4) ESTIMATED DEPTHS OF ANTICIPATED WATER AND OIL

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE:

BY:

**RECEIVED**

MAY 07 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy L. Desormeaux*

Title

Regulatory Coordinator

Date

5/6/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRINGS FEDERAL #20-1  
SEC.20-T26S-R19E  
GRAND COUNTY, UTAH

- 1) Bottom Hole Location: 1500' FWL & 1860' FNL  
SEC.20-T26S-R19E

- 2) Casing and Cementing Program:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Setting Depth</u>	<u>Cement</u>
17-1/2"	13-3/8"	61# K-55	500'	425 cu.ft.
12-1/4"	9-5/8"	40# K-55	4680'	580 cu.ft.
8-3/4"	7"	29# S-95	7550'	610 cu.ft.
6"	4-1/2"	13.5# S-95	9800'	Production Liner Hanger @ 7300'

- 3) Estimated Geologic Markers:

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	RKB= +5660
Kayenta	Surface	+5630	
Wingate	90'	+5570	
Chinle	500'	+5160	
Cutler/White Rim	1400'	+4260	
Honaker Trail	2610'	+3050	
Paradox Salt	4400'	+1260	
Cane Creek	7194' (TVD)	-1534	

- 4) Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals:

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	<u>Remarks</u>
Wingate	90'		Fresh Water
Cane Creek	7194' (TVD)		Oil

RECEIVED

MAY 07 1993

DIVISION OF  
OIL GAS & MINING

DIVISION OF OIL, GAS AND MINING

43-019-31332

SPUDDING INFORMATION

NAME OF COMPANY: Columbia Gas Development

WELL NAME: Kane Spring Fed 20-1

Section 20 Township 26S Range 19E County GRAND

Drilling Contractor Far west

Rig # 6

SPUDDED: Date 5-27-93

Time 5:00 AM

How Rotary

Drilling will commence \_\_\_\_\_

Reported by Glenn Goodwin

Telephone # \_\_\_\_\_

Date 5-27-93

SIGNED JM



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: COLUMBIA GAS & DEVELOPMENT 43-019-31332

WELL NAME: KANE SPRINGS FEDERAL 20-1

Section 20 Township 26S Range 19E County GRAND

Drilling Contractor FAR WEST

Rig # 6

SPUDDED: Date 5/27/93

Time 5:00 AM

How ROTARY

**CONFIDENTIAL**

Drilling will commence

Reported by GLENN GOODWIN-DOGM

Telephone #

Date 5/27/93 SIGNED FRM

**COLUMBIA GAS**  
Development**VIA AIRBORNE EXPRESS**

May 28, 1993

State of Utah  
Attn: R. J. Firth  
355 W. N. Temple  
3 Triad Center, Ste. 350  
Salt Lake City, UT 84180-1203

Attention: Mr. Ron Firth

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T26S-R19E  
Grand County, Utah

43-019-31332

Dear Mr. Firth:

Please find attached a Sundry Notice with notification of spud for the above-referenced well. The Entity Action form is also attached.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*  
Wendy G. DesOrmeaux  
Regulatory Coordinator

# FAX COVER SHEET

COLUMBIA GAS DEVELOPMENT CORP.  
P.O. BOX 1350  
ONE RIVERWAY  
HOUSTON, TX 77251

May 28, 1993

TO:	MR. RON FIRTH
COMPANY:	STATE OF UTAH, DIV. OF OIL, GAS & MINING
LOCATION:	SALT LAKE CITY, UTAH

NUMBER OF PAGES:	cover + 3
------------------	-----------

FROM:	WENDY DESORMEAUX REGULATORY COORDINATOR
LOCATION:	HOUSTON
PHONE NUMBER:	(713) 871-3482
FAX NUMBER:	(713) 871-3485

COMMENTS:	MR. FIRTH,  FOLLOWING IS A COPY OF THE SUNDRY NOTICE REPORTING SPUD DATE AND TIME FOR THE KANE SPRINGS FEDERAL #20-1. THE ORIGINAL WILL BE SENT AIRBORNE EXPRESS TODAY.  <i>Wendy Desormaux</i>
-----------	--

Form 3160-5  
(June 1990)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

## FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

54037

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas /7251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL &amp; 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Abandonment☐ Recompletion☐ Plugging Back☐ Casing Repair☐ Altering Casing☒ Other Spud Notification☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut-Off☐ Conversion to Injection☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)<sup>a</sup>

The above-referenced well was spudded on 5/27/93 @ 0500 hrs.

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy H. DeCromey*

Title

Regulatory Coordinator

Date

5/28/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



**VIA AIRBORNE EXPRESS**

May 28, 1993

State of Utah  
Attn: R. J. Firth  
355 W. N. Temple  
3 Triad Center, Ste. 350  
Salt Lake City, UT 84180-1203

Attention: Mr. Ron Firth

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Dear Mr. Firth:

Please find attached a Sundry Notice with notification of spud for the above-referenced well. The Entity Action form is also attached.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*  
Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

JUN 01 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

54037

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The above-referenced well was spudded on 5/27/93 @ 0500 hrs.

**RECEIVED**

JUN 01 1993

DIVISION OF  
OIL & GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy H. DeLong*

Title

Regulatory Coordinator

Date

5/28/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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54037

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Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Columbia Gas Development Corporation

3. Address and Telephone No.  
P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2400' FWL & 1000' FSL of Sec.20-T26S-R19E

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TYPE OF ACTION

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☐ Plugging Back  
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☐ Altering Casing  
☒ Other Spud Notification

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The above-referenced well was spudded on 5/27/93 @ 0500 hrs.

**RECEIVED**

JUN 01 1993

DIVISION OF  
OIL & GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Wendy A. DeCineaux

Title Regulatory Coordinator

Date 5/28/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Columbia Gas Development Corp.  
ADDRESS P. O. Box 1350  
Houston, Texas 77251-1350

OPERATOR CODE N 5035  
PHONE NO. 713 , 871-3400

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11484	43-019-31332	Kane Springs Federal #20-1	SE SW	20	26S	19E	Grand	5/27/93	5/27/93

COMMENTS:

Establish Entity Number for a new, single well.  
Entity added 6-3-93. See (Kane Springs Unit / NON P.A.)

COMMENTS:

COMMENTS:

COMMENTS:

COMMENTS:

RECEIVED

JUN 01 1993

ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)  
B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)  
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY  
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY  
E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

DIVISION OF  
OIL, GAS & MINING

Wendy G. DeCarmey

SIGNATURE  
Regulatory Coordinator 5/28/93

TITLE

DATE





June 2, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1 43-019-31332  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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54037

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Kane Springs Federal Unit

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Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

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- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
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☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

JUN 03 1993

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Wendy H. DeLong

Title

Regulatory Coordinator

Date

6/2/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**Kane Springs Federal #20-1**

**5/27/93** Spud well @ 0500 hrs on 5/27/93. Drilled to 145'. Survey @ 135' - 1/4°. Drilled 145-170'. Blew hole. POOH. PU BHA, TIH.

**5/28/93** Reamed 80' to 170'. Drilled 170 - 217'. Weld plate on blooie line. Drilled 217 - 525'. Last survey @ 509' - 3/4°.

**5/29/93** Drilled to 580'. Survey @ 580' - 1/4°. Ran and cemented 13-3/8" casing @ 580' w/530 cu. ft. of cement. No cement returns throughout job. Ran 1" tbg to 130'. Top out with 230 cu. ft. of cement. Had cement to surface. WOC 1-1/2 hours. Cement stayed @ surface. (Casing and cementing job witnessed by Jack Johnson - BLM)

**5/30/93** Final cut on csg. Weld on wellhead. Test head. NU BOP's. Test Hydril & casing. NU rotating head. PU 8" D.C.

**5/31/93** Install rotating head. Drilled to shoe. Drill & ream 580' - 1072'. Survey @ 867' - 3/4°.

**6/1/93** Drilled 1072 - 1545'. Survey @ 1466' - 1/4°. Go to air mist @ 1545'. Drilled 1545 - 1772'.



**VIA AIRBORNE EXPRESS**

June 10, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah**

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well. Also attached is the activity report for the Kane Springs Federal 25-19-34-1.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script, reading "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

JUN 11 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

JUN 11 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Signed

Wendy V. DesCormaux

Title

Regulatory Coordinator

Date

6/10/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**Kane Springs Federal #20-1**

6/2/93 Drilled w/air mist 1772 - 2365'. Last Survey @ 1783' - 1/2°.

6/3/93 Drilled 2365 - 3020'. Last Survey @ 2762' - 1/2°.

6/4/93 Drilled 3020 - 3377'. Drilling w/aerated water. Last survey @ 3361' - 1/4°.

6/5/93 C/O BHA. Unload hole, test BOP's. Drilled 3377 - 3560'.

6/6/93 Drilled 3560 - 3835'.

6/7/93 Drilled 3835 - 4008'. Survey @ 3998' - 1/2°. Drilled 4008 - 4070'.

6/8/93 Drilled 4070 - 4420'. Survey @ 4252' - 1°.

6/9/93 Drilled 4420 - 4690'. Survey @ 4670' - 3/4°. Unloaded hole & circulated.

**SPILL REPORT:**

Leak discovered in blooie pit on 6/4/93. Reported to Eric Jones - BLM @ 9:00 AM. Rich McClure w/BLM on location @ 10:00 AM. Approximately 100 bbls of fresh water (8000 ppm chlorides) leaked from pit and went down draw. Switched to drilling with aerated water to draw down pit below leak. Repaired leak with gel.

**CONFIDENTIAL**



**RECEIVED**

JUN 18 1993

DIVISION OF  
OIL GAS & MINING

June 15, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script, reading "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

JUN 1 6 1993

DIVISION OF  
"GAS & MINING"

5. Lease Designation and Serial No.  
54037

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N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

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☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
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☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
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☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

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SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

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JUN 1 6 1993

DIVISION OF  
"GAS & MINING"

14. I hereby certify that the foregoing is true and correct

Signed

Wendy L. Sedimeary

Title

Regulatory Coordinator

Date

6/15/93

(This space for Federal or State office use)

Approved by

Title

Date

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\*See instruction on Reverse Side



**Kane Springs Federal #20-1**

6/10/93 RU casing crew. Ran 110 jts & 1 cut jt of 9-5/8", K-55, 40#, LT&C Class 'A' casing and set @ 4690'. Cemented w/102 sx Hilift (mixed @ 11 ppg, yield 5.73 ft<sup>3</sup>), follow w/118 sx 10-0 RFC (mixed @ 14.2 ppg, yield 1.61 ft<sup>3</sup>). RD cementers. ND stack.

6/11/93 ND. Set slips & cut csg. Installed csg head, tested 2600#, 20 min. NU BOP's.

6/12/93 Tested BOPE to 2500#. (BOP test witnessed by Jack Johnson/BLM) Aligned stack, installed wear ring. RU Dowell, tested lines to 3500#. Drilled FC & cement.

6/13/93 Drilled cmt to 4664'. Circ & test csg to 2760#, okay. Drilled cement to 4688'. Drilled shoe & 5' new formation. Test shoe to 15.5 EMW - okay. Displace water in hole w/12.5 oil base. Drilled 4695 - 4850'.

6/14/93 Drilled 4850 - 4907'. Pumped slug. Surveyed @ 4868' - 2°. Drilled and surveyed 4907 - 5135'. Last Survey @ 5058' - 2-3/4°.

CONFIDENTIAL

RECEIVED

JUN 16 1993

DIVISION OF  
OIL GAS & MINING



June 21, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah**

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

JUN 25 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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5. Lease Designation and Serial No.  
54037

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N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Uni

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well  
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2. Name of Operator  
Columbia Gas Development Corporation

3. Address and Telephone No.  
P. O. Box 1350, Houston, Texas 77251-1350

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2400' FWL & 1000' FSL of Sec.20-T26S-R19E

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<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
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	<input checked="" type="checkbox"/> Other <u>Weekly Activity Report</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
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	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

JUN 25 1993

DIVISION OF  
OIL GAS & MINING

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct

Signed Wendy A. Desormeaux

Title Regulatory Coordinator

Date 6/21/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

**Kane Springs Federal #20-1**

**6/15/93** Drilled 5135 - 5340'. Last Survey @ 5185' -  
2-3/4°. MW 12.1

**6/16/93** Drilled 5340 - 5479'. LS @ 5342' - 2-3/4'.  
MW 12.2

**6/17/93** Drilling 5479 - 5540'. LS @ 5500' - 2-1/2°.

**6/18/93** Drilled 5540 - 5730'. LS @ 5649' - 2-1/2°. MW 12.2

**6/19/93** Drilled 5730 - 5910'. LS 5807' - 2°.

**6/20/93** Drilled 5910 - 6310'. LS @ 6185' - 2°. MW 12.1

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RECEIVED

JUN 25 1993

DIVISION OF  
OIL GAS & MINING



**RECEIVED**

JUN 30 1993

DIVISION OF  
OIL GAS & MINING

June 28, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well, along with the activity report for the Kane Springs Federal #25-19-34-1.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Trust Name  
N/A

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
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9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

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Grand County, Utah

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SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

JUN 30 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Wendy J. Desormeaux

Title

Regulatory Coordinator

Date

6/28/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**Kane Springs Federal #20-1**

6/21/93 Drilled 6310 - 6705'. LS @ 6500' - 2°. MW 12.8

6/22/93 Drilled 6705 - 6745'. Dropped Multishot - 6726' - 2.6°. PU directional tools, align mud motor. Test MWD & motor. TIH.

6/23/93 TIH. Wash 48' to bottom. Slide, building angle 6745 - 6945'. LS 6945' - 31° - N 25° W.

6/24/93 Slide 6945 - 7022'. LS 6967' - 34.1° - N 24.8° W. MW 13.1

6/25/93 Drilled (slide) 7022 - 7144'. POOH. LD motor. PU steerable motor, aligned same. TIH. LS @ 7088' - 51.6° - N 19° W. MW 13.8

6/26/93 TIH. Slip & cut drlg line. Raise mud wt. to 14.5. TIH to 6688 CBU. Wash & ream 6688 - 7144'. Drilled 7144 - 7245'. LS 7186' - 60° - N 19.6° W

6/27/93 Drilled 7245 - 7458'. LS 7370' - 67.5° - N 19.9° W MW 15.2

**COLUMBIA GAS**  
Development



July 7, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

**RECEIVED**

JUL 12 1993

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

DIVISION OF  
OIL, GAS & MINING

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well, along with the activity report for the Kane Springs Federal #25-19-34-1.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script, reading "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
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Signed Wendy T. Deschmeaux

Title Regulatory Coordinator

Date 7/6/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

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\*See Instruction on Reverse Side

Kane Springs Federal #20-1

6/28/93 POH. LD directional tools & BHA. PU bit & reamer. TIH to 3871'. No returns. Spot LCM pill, 42 PPB @ 15.5 ppg. CIH to 5741'. Spot 40 bbl pill @ 42 ppb & 13.0 ppg. Let hole heal - no returns. CIH to 6760'. Spot 40 bbls pill @ 42 ppb & 13.0 ppg. No returns. POH to csg shoe @ 4680'. Wait on RTTS tool & cement.

6/29/93 FOH. PU RTTS tool & TIH to 4669'. Test csg on backside - would not test. Located hole in casing between 4351' & 4383'. POH. PU bridge plug and start in hole. Damaged releasing assembly. WO replacement assy. 95/8"

6/30/93 WO lug assembly. TIH. Set RBP @ 4450'. Dump 20' sand. TIH w/RTTS. RU Dowell. Pump total of 315 sx cement. WOC.

7/1/93 WOC. Test cement to 1750, 15.5 EMW. POOH. Tag cement @ 4312'. Test casing.

7/2/93 Drilling cement. POOH. TIH. Pull RBP. TIH.

7/3/93 TIH. Wash & ream 7180 - 7458'. Circ. CBU. POOH. RU csg crew. Running 7" csg.

7/4/93 Set 7" S-95, 29# LT&C csg @ 7458'. Cement w/100 sx Class 'G' followed by 289 sx of foam cement followed by 145 sx 'G'. WOC. ND BOP's. Install WH & NU BOP's.

7/5/93 Test BOPE to 10,000#, annular to 2500. All tests witnessed by Jack Johnson, BLM. LD DP & DC.

7/7/93 Move & strap 3-1/2" DP. Install rotating head & Kelly. Drill FC & cement. Test casing 2000#. Drilled cement.

CONFIDENTIAL



July 7, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

**RECEIVED**

JUL 12 1993

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
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DIVISION OF  
OIL GAS & MINING

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COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*  
Wendy G. DesOrmeaux  
Regulatory Coordinator



July 12, 1993

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Grand County, Utah**

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well, along with the activity report for the Kane Springs Federal #25-19-34-1.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script, reading "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

JUL 15 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

JUL 11 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy L. Delaney*

Title

Regulatory Coordinator

Date

7/12/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

**Kane Springs Federal #20-1**

7/7/93            Drilling 7458 - 7462'.    Test formation to 18.52  
                  EMW; Pressure to 1560# w/14.9 ppg in hole for 30  
                  min.    TIH.    Install rotating head, orient motor.  
                  Drilled 7462 - 7465' sliding.    MW 15.0

7/8/93            Drilled 7465 - 7555'.    MW 15.0

7/9/93            Drilled 7555 - 7583'.    Wash & ream 35' to btm.  
                  Drilled 7585 - 7625'.    MW 15.1

7/10/93           Drilled 7625 - 7766'.    MW 15.2

7/11/93           Drilled (rotate & slide) 7766 - 7922'.    MW 15.2



**RECEIVED**

JUL 20 1993

DIVISION OF  
OIL GAS & MINING

July 19, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah**

Gentlemen:

Please find attached a Sundry Notice requesting approval to extend the horizontal leg of the above-referenced well an additional 1000'. We are presently drilling and would greatly appreciate a decision as soon as possible.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251 (713)871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Horizontal Extension

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Columbia Gas Development Corporation respectfully requests approval to extend the horizontal leg of the above-referenced well an additional 1000'±. The actual length will be based upon economics, drilling hazards, and geology.

**RECEIVED**

JUL 20 1993

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 7/21/93  
BY: [Signature]

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title

Regulatory Coordinator

Date

7/19/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:





July 20, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

JUL 26 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allocated or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Columbia Gas Development Corporation

3. Address and Telephone No.  
P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Weekly Activity Report</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Kenon and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

JUL 26 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Wendy A. DeCrommey

Title Regulatory Coordinator

Date 7/20/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**Kane Springs Federal #20-1**

7/12/93            Drilled 7922 - 8050'.  
Survey @ 8002' MD - N 20.4° W

7/13/93            Drilled 8050 - 8156'.    Checked for flow & CBU.  
Drilling break 8153 - 8169' - 23-1/2 hrs.    Drilled  
8156 -8191'.    MW 15.2

7/14/93            CBU. Pumped slug.    C/O MWD.    Change motor bend from  
1° to 2°.    Drilled 8204 - 8231'.  
LS @ 8196' - N 16.9° W            MW 15.2

7/15/93            Drilled 8231 - 8325'.    Note:    Mud cut to 13.7 - 620  
units gas after trip.

7/16/93            Drilled 8325 - 8495'.    POOH.    MW 15.2

7/17/93            PU core barrel & orient same.    Wash & ream to  
7850'.

7/18/93            Wash & ream 7850 - 8495'.    Cut core.    MW 16.0

7/19/93            POOH.    LD CB.    PU Motor, MWD.    TIH.    MW 16.4



**RECEIVED**

JUL 29 1993

DIVISION OF  
OIL GAS & MINING

July 26, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

SUBMIT IN TRIPLICATE

RECEIVED  
JUL 29 1993

DIVISION OF  
OIL GAS & MINING

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Columbia Gas Development Corporation

3. Address and Telephone No.  
P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

14. I hereby certify that the foregoing is true and correct

Signed Wendy S. DesCormieux

Title Regulatory Coordinator

Date 7/26/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

**Kane Springs Federal #20-1**

<b>7/20/93</b>	Drilled 8525 - 8652'. MW 16.3
<b>7/21/93</b>	Drilled 8652 - 8815'. MW 16.3 LS @ 8742' MD - N 20.8° W
<b>7/22/93</b>	Drilled 8815 - 8990'. MW 16.2 LS @ 8935' MD - N 23.1° W
<b>7/23/93</b>	Drilled 8990 - 9146'.
<b>7/24/93</b>	Drilled 9146 - 9315'. MW 16.0 LS @ 9256' MD - N 21.5° W
<b>7/25/93</b>	Drilled 9315 - 9490'. MW 16.0 LS @ 9450' MD - N 21.5° W

**RECEIVED**

JUL 29 1993

DIVISION OF  
OIL GAS & MINING



August 3, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached a Sundry Notice requesting approval of an additional 700' of horizontal section for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

AUG 04 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P.O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Extension of Vertical Section  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Columbia Gas Development Corporation respectfully requests approval to extend the horizontal section of the above-referenced well an additional 700'+ (in addition to the 1000' approved on 7/22/93), for a total of approximately 4,280' of vertical section at a measured depth of 11,200'+ with an azimuth of 342.

*horizontal*

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

**RECEIVED**

AUG 04 1993

DATE: 8-4-93 DIVISION OF  
BY: [Signature] OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Wendy G. DesOrmeaux

Title Wendy G. DesOrmeaux

Date 8/3/92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_



**COLUMBIA GAS**  
Development



August 3, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

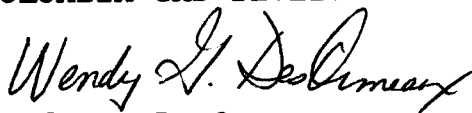
Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

  
Wendy G. DesOrmeaux  
Regulatory Coordinator

**RECEIVED**

AUG 04 1993

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Uni

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

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2400' FWL & 1000' FSL of Sec.20-T26S-R19E

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- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
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☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

AUG 04 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy J. Delormeaux*

Title

Regulatory Coordinator

Date

8/3/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

**Kane Springs Federal #20-1**

7/26/93 Drilled 9490 - 9620' (slide & rotate).  
LS @ 9579 MD - N 20.2° W MW 16.1

7/27/93 Drilled 9620 - 9674'. Mud cut from 16.1 to 15.6  
(224 units gas). Circ & cond mud, build wt to  
16.3.

7/28/93 RU Schlumberger. Logged well. RD, Fin POOH.  
MW 16.4

7/29/93 Wash & ream 9642 - 9674'. CBU. Mud cut from 16.4  
to 15.6 ppg (164 units gas). Drilled 9674 - 9728'.  
LS @ 9676' - N 20.7° W MW 16.3

7/30/93 Drilled 9728 - 9860'.  
LS @ 9804' MD - N 18.3° W MW 16.2

7/31/93 Drilled 9860 - 9868'. Function test BOP. Drilled  
9868 - 9942'. MW 16.0  
LS @ 9901' - N 12.3° W

8/1/93 Drilled 9942 - 10,075 (slide & rotate). MW 16.0  
LS @ 10,030' MD - N 18.3° W

8/2/93 Drilled 10,075 - 10,205' (slide & rotate). MW 16.0  
LS @ 10,159' MD - N 17.9° W

CONFIDENTIAL

**COLUMBIA GAS**  
Development



**RECEIVED**

**AUG 11 1993**

**DIVISION OF  
OIL GAS & MINING**

August 9, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T26S-R19E  
Grand County, Utah**


Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

  
Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter to a well or to alter a well or to  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

AUG 11 1993

RECEIVED

5. Lease Designation and Serial No.

54037

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

DIVISION OF  
OIL GAS & MINING

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

14. I hereby certify that the foregoing is true and correct

Signed

Wendy L. DeLoe

Title

Regulatory Coordinator

Date

8/9/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**Kane Springs Federal #20-1**

8/3/93 Drilled 10205 - 10330'. MW 16.0  
LS @ 10288' MD - N 18.8° W

8/4/93 Drilled 10330 -10410' (Drlg break). CBU - no gas,  
no cut. Drilled 10410 - 10422'.

8/5/93 Drilled 10422 - 10522' (rotate & slide).

8/6/93 Drilled 10522 - 10628'. MW 16.1  
LS @ 10578' MD - N 17.6° W

8/7/93 Wash & ream 38' to btm. Drilled 10628'- 10732'  
(slide & rotate). MW 16.2

8/8/93 Drilled 10732 - 10771'. CBU. Drilled 10771 -  
10803'. Pump slug, short trip. Move jars up hole.  
Wash & ream 32' to btm. Drilled 10803 - 10820'.  
MW 16.4



**RECEIVED**

**AUG 19 1993**

**DIVISION OF  
OIL, GAS & MINING**

August 18, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah**

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script, reading "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
54037

6. If Indian, Aliance or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

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TYPE OF ACTION

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- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
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☐ Dispose Water  
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**RECEIVED**

AUG 19 1993

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy G. Desormeaux*

Title

Regulatory Coordinator

Date

8/18/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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\*See Instruction on Reverse Side



**Kane Springs Federal #20-1**

8/9/93 Drilled 10820 - 10918'. MW 16.3

8/10/93 Drilled 10918 - 10936' - rotate. Short trip to 7450'. Monitor well @ 7450'. POOH. LD BHA. RU csg crew.

8/11/93 Ran 4-1/2" 13.5# S-95 liner to 10936' liner. RD csg crew. TIH - hang liner. TOL 7199'. PU Baker Model 'DB' pkr & set @ 6958'. TIH. Sting into pkr. Test annulus to 1000#. POH.

8/12/93 POOH, LD 3-1/2" DP, HWDP & DC's. RU to run tbg. RIH w/220 jts 2-7/8" tbg. Tag pkr @ 6958' - set seals in prk w/10M tbg wt. Tested pkr on annulus to 1M - okay. Installed tbg wrap-around & tree/tbg bushing. Set back in pkr w/14M tbg wt. RD tbg tester. Opened well to test tank and bled down pressure to 0 psi. Left well open.

8/14/93 Cont. well test while WO swab unit. RU to swab. Made 7 swabs. Last swab - no sign of wellbore entry. SD swabbing for night. Monitoring well on 36/64 ck - no action.

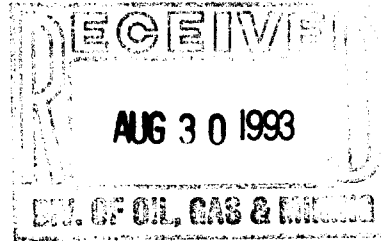
8/15/93 Monitor well. Swabbing - est. 100' wellbore entry overnite. Made 8 swab runs, 2 hrs between swabs. No gas or live oil in swab recover. **Rig released @ 1200 hrs, 8/15/93.** Monitor well on 36/64 ck.

8/16/93 Monitor well - open to test tank on 36/64 - no action. RU swab. Recovered est. 2 bbls OB mud. Waited 3 hrs, swabbed - no recovery. SD swabbing & RD same.

8/17/93 No activity. RD Forwest Rig #6.

**CONFIDENTIAL**

**COLUMBIA GAS**  
Development



August 25, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah**

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

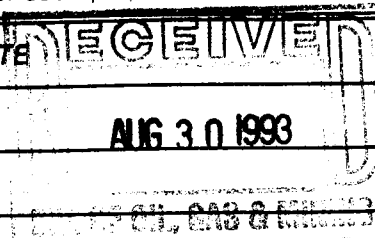
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE



1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

5. Lease Designation and Serial No.  
54037

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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- ☐ Notice of Intent  
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☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

14. I hereby certify that the foregoing is true and correct

Signed

Melody L. Desormeaux

Title

Regulatory Coordinator

Date

8/25/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**Kane Springs Federal #20-1**

**AUG 30 1993**

8/18/93 No activity. RD Forwest Rig #6.

8/19/93 RD Forwest Rig #6.

8/20/93 Forwest Rig #6 finished RD around well.

8/21/93 Cleared area around wellhead & cellar. Levelled area w/backhoe. Dressed wellhead area in preparation for spotting CT unit for jetting job.

8/22/93 RU Nowcam CT equipment. TIH w/1-1/2" CT while jetting w/N<sub>2</sub> to top of 4-1/2" liner @ 7193' CTM (pipe set measure 7199'). Began working washout tool on top of liner. POOH w/washout head. Took CT adaptor tools to machine shop in Moab. TIH w/1-1/2" CT. Worked into liner. Jetted w/N<sub>2</sub>. Began tagging & working thru csg collars to 7504'. Tool acted as if might be pushing something 7517 - 7525'. Could not work down hole - ran out of time. POH w/EOT to 7250'. Est. recovery 1-2 bbls OB mud - no live oil or gas. SWFN.

8/23/93 Open well w/no tbq psi. Worked CT from 7250 - 7527' & began tagging obstruction. Cont. working down hole to 7565'. Jetted w/N<sub>2</sub>. Cont. trying to work CT down hole from 7565-7573'. Not making any hole. Circ hole w/N<sub>2</sub>. PUH w/CT to 7250'. SWFN.

8/24/93 Open well, no psi. LIH w/CT from 7250' to obstruction @ 7573'. RU Dowell. Spotted 20,000 SCF N<sub>2</sub> in front of 200 gal 15% HCl. Press up on CT / 4-1/2" csg to 1500 psi w/N<sub>2</sub>. Shut well in. WO acid to react w/obstruction. TIH w/CT, tagged obstruction @ 7573' & pushed same to 7577' while working tbq. Cont working CT on obstruction from 7577-7579'. TOO H w/BHA & broke down leaving out knuckle jt. assembly. MU carbide blade bit, Hopp Trapper drill, centralizer, Hyd. disconnect tool, tbq adapt. & ran on CT. TIH w/BHA & tagged obstr. @ 7579'. Drld to 7580'. SWFN.

**COLUMBIA GAS**

Development

**RECEIVED**

SEP 07 1993

DIVISION OF  
OIL, GAS & MINING

September 2, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached the Weekly Activity Report for the above-referenced well. The well is presently shut-in and Columbia is evaluating further completion activities.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*  
Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

SEP 07 1993

DIVISION OF  
OIL, GAS & MINING

5. Lease Designation and Serial No.  
54037

6. If Indian, Allocated or Tribe Name  
N/A

7. If Unit or CA. Agreement Designation  
Kane Springs Federal Uni-

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, Utah

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

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☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Activity Report

- ☐ Change of Plans  
☐ New Construction  
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☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

14. I hereby certify that the foregoing is true and correct

Signed

Wendy L. DeCremeaux

Title

Regulatory Coordinator

Date

9/2/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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\*See instruction on Reverse Side

**Kane Springs Federal #20-1**

**8/25/93**

LIH w/CT BHA from 7250' to obst @ 7577'. Circ btms up w/N<sub>2</sub>. Worked against obstruction - negative results. SI well - chained and locked all valves.

**8/26/93**

Released all rentals, secured location. Built remainder of fence around pits. Evaluating further completion activity.

**COLUMBIA GAS**  
Development



**RECEIVED**

SEP 21 1993

DIVISION OF  
OIL, GAS & MINING

VIA AIRBORNE EXPRESS

September 20, 1993

Bureau of Land Management  
Attn: Eric Jones  
82 E. Dogwood  
Moab, UT 84532

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference:** Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Grand County, Utah

Gentlemen:

Please find attached a Sundry Notice requesting a Temporarily Abandoned status for the above-referenced well. The well is presently shut-in and Columbia is evaluating further completion activities.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*  
Wendy G. DesOrmeaux  
Regulatory Coordinator



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals

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54037

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N/A

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Kane Springs Federal Unit

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Kane Springs Fed. #20-1

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Grand County, Utah

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Columbia Gas Development Corporation respectfully requests a Temporarily Abandoned status for the above-referenced well for a one year period. Columbia is evaluating completion opportunities.

**RECEIVED**

SEP 21 1993

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Wendy A. Deslauriers*

Title

Regulatory Coordinator

Date

9/20/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

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**CONFIDENTIAL**

October 25, 1993

**RECEIVED**

**Oct 27 1993**

**DIVISION OF  
OIL, GAS & MINING**

State of Utah  
Division of Oil, Gas & Mining  
Attn: Mr. R. J. Firth  
355 W. N. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
Sec.20-T268-R19E  
Kane Springs Federal #25-19-34-1  
Sec. 34-T258-R19E  
Grand County, Utah**

Dear Mr. Firth:

Please find attached Sundry Notices reporting pit closure activities on the above-referenced wells.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

*Wendy G. DesOrmeaux*

Wendy G. DesOrmeaux  
Regulatory Coordinator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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**SUBMIT IN TRIPLICATE**

1. Type of Well

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Columbia Gas Development Corporation

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P. O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FWL & 1000' FSL of Sec.20-T26S-R19# E

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54037

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7. If Unit or CA, Agreement Designation

Kane Springs Federal  
Unit

8. Well Name and No.

Kane Springs Fed.#20-1

9. API Well No.

43-019-31332

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SEE ATTACHED FOR PIT CLOSURE REPORT.

**RECEIVED**

OCT 27 1993

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Wendy J. DesCheneaux Title Regulatory Coordinator Date 10/25/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

**KANE SPRINGS FEDERAL #20-1**

**PIT CLOSURE REPORT**

9/31/93            Move in track hoe and dozer. Start to squeeze in pits.

10/2/93            Mix contents of pit and bentonite.

                  \*    Total bentonite used - 119.75 tons. Approximately 20-30 tons used in cap, remainder mixed into pit.

10/4/93            Filled pit. Put cap in place.

10/5/93            Bringing pit back to grade.

10/6/93            Finished bringing pit back to grade. Topped with top soil. Ready to reseed.



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

April 20, 1994

Wendy G. DesOrmeaux  
Columbia Gas Development Corporation  
P.O. Box 1350  
Houston, Texas 77251-1350

Re: Well Completion Report, Kane Springs Federal 20-1, API No. 43-019-31332, Section 20, T. 26 S., R. 19 E., Grand County, Utah

Dear Ms. DesOrmeaux:

In September, 1993, Columbia requested that the above referenced well be placed in a temporarily abandoned status while evaluating further completion activities. Despite the fact that this well has not yet been adequately worked to be capable of production, or completely tested, we are requesting that the enclosed Form 8, Well Completion Report and Log be completed and returned to this office as soon as possible. It is our desire to have this summary report available in our well file for quick reference. If at some future time additional drilling and completion work is performed on the well, an amended completion report should be submitted. Your cooperation in this matter is appreciated.

Sincerely,

Don Staley  
Administrative Manager  
Oil & Gas

ldc

Enclosure

cc: R. J. Firth  
D. M. Eatchel  
[REDACTED]

WOI33





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

APR 28 1994

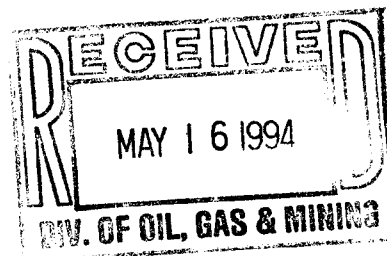
Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

April 20, 1994



Wendy G. DesOrmeaux  
Columbia Gas Development Corporation  
P.O. Box 1350  
Houston, Texas 77251-1350

Re: Well Completion Report, Kane Springs Federal 20-1, API No. 43-019-31332, Section 20, T. 26 S., R. 19 E., Grand County, Utah

Dear Ms. DesOrmeaux:

In September, 1993, Columbia requested that the above referenced well be placed in a temporarily abandoned status while evaluating further completion activities. Despite the fact that this well has not yet been adequately worked to be capable of production, or completely tested, we are requesting that the enclosed Form 8, Well Completion Report and Log be completed and returned to this office as soon as possible. It is our desire to have this summary report available in our well file for quick reference. If at some future time additional drilling and completion work is performed on the well, an amended completion report should be submitted. Your cooperation in this matter is appreciated.

Sincerely,

Don Staley  
Administrative Manager  
Oil & Gas

ldc

Enclosure

cc: R. J. Firth  
D. M. Eatchel  
Well file

WOI33



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING**CONFIDENTIAL****WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_  
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other Temp. Abandoned

2. NAME OF OPERATOR

Columbia Gas Development Corporation

3. ADDRESS OF OPERATOR

P. O. Box 1350, Houston, TX 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 2400' FWL &amp; 1000' FSL

At top prod. interval reported below

At total depth

513' FNL &amp; 1049' FWL

14. PERMIT NO. 43-019-31332

MAY 16 1994

DATE ISSUED 3/8/93

5. LEASE DESIGNATION AND SERIAL NO.

54037

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Kane Springs Federal Ut.

8. FARM OR LEASE NAME

Kane Springs Federal

9. WELL NO.

20-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 20-T26S-R19E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

15. DATE SPUDDED

5/27/93

16. DATE T.D. REACHED

8/11/93

17. DATE COMPL. (Ready to prod.)

NA - Temp. Aband.

18. ELEVATIONS (DF, RMB, RT, GR, ETC.)\*

5633' GR

19. ELEV. CASINGHEAD

GL

20. TOTAL DEPTH, MD &amp; TVD

7479 TVD/10936 MD

21. PLUG BACK T.D., MD &amp; TVD

MD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

NA

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Wireline Sonic, MWD-Gamma Ray 2-2-95

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#	580	17-1/2"	530 cu.ft + 230 cu.ft.	-
9-5/8"	40#	4690	12-1/4"	102 sx Hilift + 118 sx	RFC -
7"	29#	7458	8-3/4"	100 sx CL G + 289 sx Foam cmt + 145 sx CL G	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	7100'	10936'	Uncemented		2-7/8	6998'	6960'

31. INFORMATION RECORD (Interval, size and number)

Liner predrilled w/1" hole every 3' @ 90 phase from 7536-10936'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION: NA PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): NA/ Attempted to flow well . no production WELL STATUS (Producing or shut-in): Temp. Abandoned

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
8/14/93		Open		None	None	-	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
0	0		0	0	0	-	

34. DISPOSAL OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

N/A

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State agency. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

**Item 1:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments items 22 and 24. If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement"** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

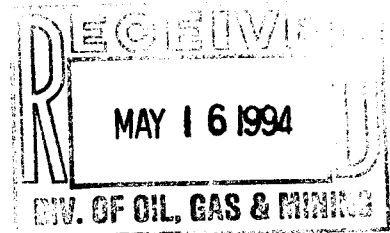
37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Cane Creek zone of Paradox Fm.	8495	8525	Core Interval	Chinle Top-Salt Cane Creek Cane Creek "B"	575 4329 7420 7776		575 4329 7194 7259





**VIA AIRBORNE EXPRESS**

May 13, 1994



State of Utah  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Mr. Don Staley

Reference: Columbia Gas Development Corporation  
Kane Springs Federal #20-1  
API #43-019-31332  
Temporarily Abandoned Status  
Request for Completion Report

Dear Mr. Staley:

As requested in your letter dated 4/20/94 (copy attached), please find enclosed a completed Form 8 for the above-referenced well.

Columbia Gas Development Corporation respectfully requests confidentiality for the maximum period of time allowed for all information included in this report.

Should you have any questions or require any additional information, please contact me at 713/871-3482.

Sincerely,

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux  
Regulatory Coordinator

WGD  
Enclosure

cc: Eric Jones  
BLM - Moab District

ENTITY ACTION FORM - FORM 6

ADDRESS \_\_\_\_\_

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ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11484	11670	43-019-31332	KANE SPRINGS FED 20-1	SESW	20	26S	19E	GRAND	5-27-93	9-20-94
WELL 1 COMMENTS: *ENTITY 11484 ASSIGNED TO 16-1/4301931341 (IT WAS ORIGINALLY ASSIGNED TO BOTH WELLS). THE WELLS ARE WITHIN THE BOUNDARY OF THE KANE SPRING UNIT HOWEVER NOT WITHIN ANY OF THE 3 P.A.'S.											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA *le* (DOGM)

Signature

ADMIN. ANALYST

9-26-94

Title

Date

Phone No. ( )



January 30, 1995

State of Utah  
Division of Oil, Gas, & Mining  
355 West North Temple  
3 Triad Center, Ste. 350  
Salt Lake City, Utah 84180-1203

Attention: Ms. Vicky Carney

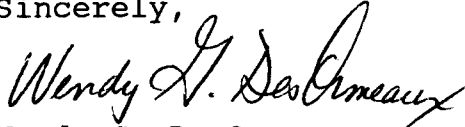
Reference: **Columbia Gas Development Corporation  
Submittal of Electric & Radioactivity Logs  
Kane Springs Federal #20-1  
API # 43-019-31332**

Dear Ms. Carney:

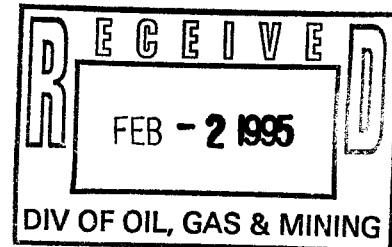
As requested in your letter dated January 17, 1995, enclosed please find a copy of the Wireline Sonic and MWD-Gamma Ray logs run on the above-referenced well.

Should you require any additional information, please contact me at 713/871-3482.

Sincerely,

  
Wendy G. DesOrmeaux  
Regulatory Coordinator

WGD  
Enclosures



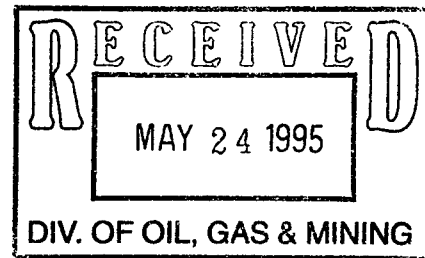
**COLUMBIA GAS**  
Development



43-019-31332

May 23, 1995

State of Utah  
Department of Natural Resources  
Oil, Gas & Mining  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203



Attention: Mr. Jack Johnson

Reference: Gov't. Evelyn Chambers #1 & #2  
San Juan County, Utah

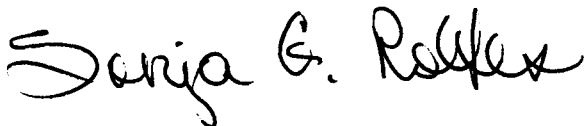
Kane Springs #28-1 & Kane Springs #20-1  
Grand County, Utah

Dear Sir:

Enclosed please find the "Annual Status Reports" for the above referenced wells.

If you have any questions, or require any additional information, please contact me at 713/871-3377.

Sincerely,



Sonja G. Rolfes  
Engineering Technician

enclosures

cc: Wendy DesOrmeaux  
Columbia Gas Development Corporation

Eric Jones  
BLM, Moab Office

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER: \_\_\_\_\_

2. Name of Operator:  
Columbia Gas Development Corporation

3. Address and Telephone Number:  
P.O. Box 1350, Houston, Texas 77251-1350

4. Location of Well  
Footages: 100' FSL & 2500' FWL  
QQ, Sec., T., R., M.: Sec. 20-T26S-R19E

5. Lease Designation and Serial Number:  
UTU67755X

6. If Indian, Alutian or Tribe Name: \_\_\_\_\_

7. Unit Agreement Name: \_\_\_\_\_

8. Well Name and Number:  
Kane Springs 20-1

9. API Well Number:  
4301931332

10. Field and Pool, or Wildcat:  
Wildcat

County: Grand

State: Utah

### 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

#### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandonment             | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion     | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Approximate date work will start \_\_\_\_\_

#### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment *                                | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                                | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                              | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection                      | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat                               | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Annual Status Report</u> |   |

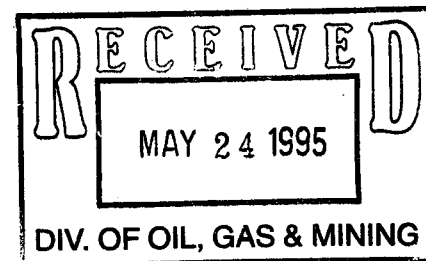
Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Temporarily abandoned, re-evaluating for stimulation/re-completion/plug and abandonment.



13.

Name & Signature: Sonja G. Rolfes *Sonja G. Rolfes* Title: Engineering Technician Date: 05/23/95

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 2 of 2

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

SONJA ROLFES  
COLUMBIA GAS DEVELOPMENT  
PO BOX 1350  
HOUSTON TX 77251

UTAH ACCOUNT NUMBER: N5035REPORT PERIOD (MONTH/YEAR): 6 / 96AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
<del>4301931341</del>	<del>11484</del>	<del>25S 18E 16</del>	<del>CNCR</del>			<del>ML44333</del>	<del>(bend OK)</del>	<del>Kane Springs 16/18/16</del>
<del>4301931334</del>	<del>11521</del>	<del>25S 19E 34</del>	<del>CNCR</del>			<del>U53624</del>		"
<del>4301931332</del>	<del>11670</del>	<del>26S 19E 20</del>	<del>CNCR</del>			<del>UTK54037</del>		"
TOTALS								

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

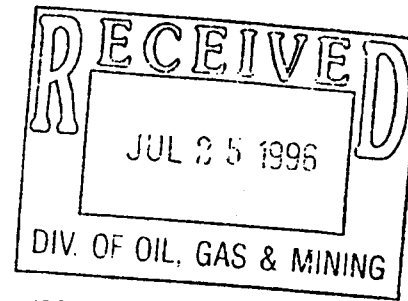
Telephone Number: \_\_\_\_\_



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3100  
U-968 et al  
(UT-932)

JUL 23 1996

### NOTICE

Aviara Energy Corporation  
P.O. Box 1350  
Houston, Texas 77251-1350

: Oil and Gas  
: U-968 et al  
:

### Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Columbia Gas Development Corporation to Aviara Energy Corporation on Federal oil and gas leases.

For our purposes, the name change is recognized effective May 1, 1996 (Secretary of State's approval date).

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator is required by our Field Offices, you will be contacted by them.

Due to the name change, the name of the principal on the bond is required to be changed from Columbia Gas Development Corporation to Aviara Energy Corporation on Bond No. U-391050-16RR (BLM No. CO0356). A rider effecting this change has been submitted to the Colorado State Office of the BLM, which holds this nationwide bond.

**ROBERT LOPEZ**

Group Leader,  
Minerals Adjudication Group

Enclosure  
Exhibit (1 p.)

bc: Lisha Cordova, State of Utah, Division of Oil, Gas and Mining, P.O. Box 145801, Salt Lake City, Utah 84114-5801  
MMS-Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217  
Moab District Office  
Vernal District Office  
Teresa Thompson (UT-931)  
Irene Anderson (UT-932)

Exhibit of Leases

U-968	U-52277	UTU-65329
U-6911	U-52641	UTU-65795
U-15051	U-53624	UTU-65971
U-26467	U-53626	UTU-65972
U-28212	U-54037	UTU-65973
U-31736	U-55510	UTU-66020
U-34023	U-58517	UTU-66025
U-37116	U-60530	UTU-66849
U-46693	U-61182	UTU-67132
U-46697	U-61588	UTU-67552
U-47858	U-62181	UTU-67558
U-49964	U-62679	UTU-67854
U-50393	U-62832	UTU-68116
U-50678	U-62833	UTU-68117
U-50683	U-62906	UTU-68118
U-50687	U-63127	UTU-68122
U-51239	U-63128	UTU-68232
U-51636	UTU-64538	UTU-68342
U-51826	UTU-64927	UTU-69029
U-60780 (CA)	U-60783 (CA)	UTU-73405
UTU-67755X (Kane Springs Unit)		

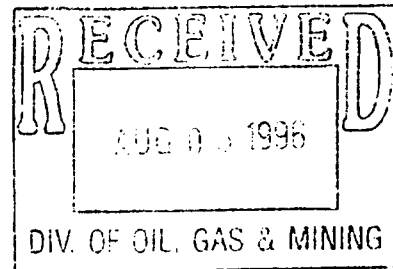


# **Aviara Energy Corporation**

**VIA AIRBORNE EXPRESS**

2 August 1996

State of Utah - Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114



**Re: Notification of Name Change from "Columbia Gas Development Corporation" to "Aviara Energy Corporation".**

Dear Sirs;

Attached please find documents relating to our company name change from "Columbia Gas Development Corporation" to "Aviara Energy Corporation". I have attached our surety bond rider showing the name change of the principal as well as documents relating to the Corporate name change. These Corporate name change documents contain a Certificate of Corporate Resolution, a Certificate of Amendment of Certificate of Incorporation by the Secretary of State of the State of Delaware evidencing a change of name effective April 30, 1996 from "Columbia Gas Development Corporation" to "Aviara Energy Corporation" and an amended Certificate of Incumbency in accordance with the regulations concerning qualifications of corporations holding Federal leases. I have also attached a list of wells and their locations that will be affected by the name change.

We hereby formally request your acceptance of this rider, and thus, our name change. Please sign the rider and return the appropriate copies to Aviara Energy Corporation (attn: Mr. Dean Roy). Also, please have your office make the necessary changes in your records to reflect this name change at this time.

Should you have questions or require additional information, please feel free to call me at (713) 871-3631. Thank you.

Respectfully,

  
Donny W. Worthington  
Manager, Environmental, Safety & Regulatory

DWW/  
attachments:

UTAH

GRAND COUNTY

KANE SPRINGS FIELD

LOCATION

Kane Springs Federal #10-1	10-25S-18E
Kane Springs Federal Unit #16-1	16-25S-18E
Kane Springs Federal #19-1A	19-26S-20E
Kane Springs Federal #27-1	27-25S-19E
Kane Springs Federal #34-1	34-25S-19E
<i>Kane Springs Fed. 28-1</i>	<i>28-25S-19E</i>
<i>Kane Springs Fed. 20-1</i>	<i>20-26S-19E</i>

SAN JUAN COUNTY

LISBON FIELD

Government Evelyn Chambers #1 (T&Ad)  
Government Evelyn Chambers #2 (T&Ad)

UINTAH COUNTY

HORSESHOE BEND FIELD

WELL

LOCATION

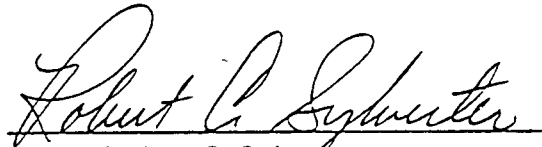
Alta 5-1-B	5-7S-21E
Alta 5-2-C	5-7S-21E
Cowden 31-3-C	31-6S-21E
Federal 33-3-J	33-6S-21E
Federal 33-6-F	33-6S-21E
Federal 33-7-L	33-6S-21E
Federal 33-8-N	33-6S-21E

CERTIFICATE

I, Robert C. Sylvester, Assistant Secretary of Aviara Energy Corporation, a corporation organized and existing under the laws of the State of Delaware, do hereby certify that the attached document titled Certificate of Amendment of Certificate of Incorporation is a true and correct copy of the Certificate of Amendment of Certificate of Incorporation filed in the Secretary of State of the State of Delaware's office on April 30, 1996.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of said Corporation this

5<sup>th</sup> day of July, 1996.

A handwritten signature in cursive script, reading "Robert C. Sylvester", written over a horizontal line.

Robert C. Sylvester  
Assistant Secretary

CORPORATE SEAL

*Office of the Secretary of State*

---

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COLUMBIA GAS DEVELOPMENT CORPORATION", CHANGING ITS NAME FROM "COLUMBIA GAS DEVELOPMENT CORPORATION" TO "AVIARA ENERGY CORPORATION", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF APRIL, A.D. 1996, AT 1:15 O'CLOCK P.M.



A handwritten signature in cursive script, reading "Edward J. Freel", is written over a horizontal line.

Edward J. Freel, Secretary of State

AUTHENTICATION:

DATE:

7928485

05-01-96

0735923 8100

000125685

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 01:15 PM 04/30/1996  
960124621 - 735923

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
COLUMBIA GAS DEVELOPMENT CORPORATION

Columbia Gas Development Corporation (the "Corporation"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: That the Certificate of Incorporation of Columbia Gas Development Corporation is amended by amending Article First thereof to read in its entirety as follows:

"FIRST: The name of the corporation (hereinafter called "the Corporation") is Aviaara Energy Corporation."

SECOND: That said amendment was duly adopted in accordance with the provisions of §242 of the General Corporation Law of the State of Delaware and has been consented to in writing by the sole stockholder in accordance with §228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said Columbia Gas Development Corporation has caused this Certificate to be signed by Larry J. Bainter, its Treasurer this 29th day of April 1996.

*Vice President*  
*[Signature]*

COLUMBIA GAS DEVELOPMENT CORPORATION

By: *[Signature]*  
Name: Larry J. Bainter

## CERTIFICATE

The undersigned hereby certifies that he is Assistant Secretary of Aviara Energy Corporation, a Delaware corporation (the "Corporation"), that on the 19th day of June, 1996 by Unanimous Consent of the Board of Directors of the Corporation in Lieu of Special Meeting, pursuant to Section 141(f) of the Delaware Corporation Law, the following resolutions were adopted, with the same force and effect as though adopted at a Special Meeting of the Board of Directors of the Corporation duly called and held, that such resolutions are now in full force and effect, and that said resolutions have not been amended or rescinded:

RESOLVED, that, the Chairman and Chief Executive Officer, the President and Chief Operating Officer, the Vice Presidents and the Secretary of the Corporation, be and each of them is hereby authorized and empowered, without the joinder of any other officer of the Corporation, to execute for and on behalf of the Corporation, any and all bids for leases from the United States of America, through the Minerals Management Service (Department of Interior), of any tract or tracts owned by the United States of America, located in either onshore or offshore areas, including tracts in the Outer Continental Shelf, as may at any time, and from time to time, heretofore have been offered or hereafter may be offered for lease by the United States of America, all on such terms and conditions as may be specified in any such offer to lease and on such terms and conditions and for such consideration as the aforementioned officers of the corporation, or any one of them, may deem proper and advisable; and to further execute on behalf of the Corporation all agreements and other instruments (including, without limitation, applications, bids, leases, bonds, assignments, relinquishments, prospecting permits, division and transfer orders, guarantees, indemnities, designations of operator, unitization agreements, operating agreements, liquids commingling agreements, general correspondence and any other documents) which may be necessary, useful or expedient at any time in carrying on the business of the Corporation involving any such lease or asset with the United States of America or any agency, bureau or department thereof; and

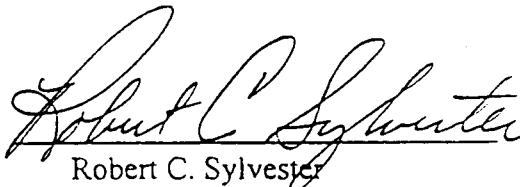
RESOLVED, that, any of such officers is further authorized and empowered to sell, assign, transfer, convey and deliver, in the name and on behalf of the Corporation any or all right, title and interest of any character in any lease or asset now owned or hereafter acquired by the Corporation covering any tract or tracts owned by the United States of America, or obtained or used in connection therewith, wherever located, for such prices and upon such terms and conditions as shall be approved by the Board of Directors; and

RESOLVED, that, the Chairman and Chief Executive Officer, the President and Chief Operating Officer, the Vice Presidents and the Secretary of the Corporation, be, and each of them is, hereby authorized and empowered, without the joinder of any other officer of the Corporation, to execute for and on behalf of the Corporation, any and all agreements and other instruments (including without limitation assignments of mining leases, prospecting permits, letter agreements,

consent forms, applications and approval letters) with the Tribe(s) of the Fort Peck Reservation and the Three Affiliated Tribes of the Fort Berthold Indian Reservation or any agency, bureau or department thereof. or any agency, bureau or department of the United States of America concerning same on such terms and conditions as may be specified and for such consideration as he may deem proper and advisable which may be necessary, useful or expedient at any time in carrying on the business of the Corporation upon the aforementioned Reservations; and

RESOLVED, that, the foregoing resolutions be deemed, and are effective, for all purposes as of April 30, 1996.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of the Corporation this 5<sup>th</sup> day of July, 1996.

  
Robert C. Sylvester  
Assistant Secretary

CORPORATE SEAL

STATE OF TEXAS       §  
                                  §  
COUNTY OF HARRIS   §

STATEMENT OF AVIARA ENERGY CORPORATION

The undersigned, Robert C. Sylvester, Assistant Secretary of Aviara Energy Corporation, being first duly sworn on his oath, states that the following is correct to the best of his knowledge.

1.   State of Incorporation. Aviara Energy Corporation is incorporated in the State of Delaware.
2.   Authorization to hold oil and gas leases on OCS and other federal lands. Aviara Energy Corporation is authorized to hold oil and gas leases on the Outer Continental Shelf, on other federal lands, including onshore lands, and on tribal lands administered by the Bureau of Indian Affairs or other agency.

Dated this 5<sup>th</sup> day of July, 1996.

AVIARA ENERGY CORPORATION

By Robert C. Sylvester  
Robert C. Sylvester  
Assistant Secretary

CORPORATE SEAL

SUBSCRIBED AND SWORN TO before me this 5<sup>th</sup> day of July, 1996.

Carolyn Oliver  
Notary Public, State of Texas



CAROLYN OLIVER  
NOTARY PUBLIC, STATE OF TEX.  
MY COMMISSION EXPIRES  
JULY 19, 1997

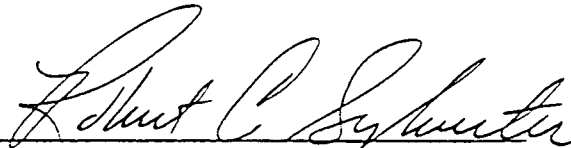


CERTIFICATE OF INCUMBENCY

I, Robert C. Sylvester, Assistant Secretary of Aviara Energy Corporation, a Delaware corporation (the "Company"), do hereby certify that the following named persons now are, and at all times on and subsequent to April 30, 1996, have been duly elected or appointed, qualified and acting officers of the Company holding the offices set after their respective names as follows:

Tracy W. Krohn	Chairman and Chief Executive Officer
James L. Parker	President and Chief Operating Officer
David M. McCubbin	Vice President
Gary J. Mabie	Vice President
Ken Fagan	Vice President
Robert C. Sylvester	Treasurer and Assistant Secretary
Ivan Irwin, Jr.	Secretary
Jere F. Freel	Assistant Secretary

IN WITNESS WHEREOF, I have executed this Certificate and affixed the seal of the Company this 3rd day of July, 1996.

  
Robert C. Sylvester, Assistant Secretary

CORPORATE SEAL

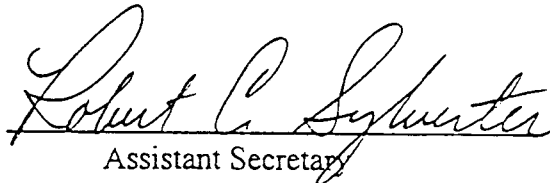
## CERTIFICATE

I, Robert C. Sylvester, on behalf of Aviara Energy Corporation, (hereinafter called the "Company"), hereby certify that I am an Assistant Secretary of the Company and that:

The following officers and employees are authorized to execute leases, bids for leases, offers to lease, subleases, permits, licenses, applications therefor, assignments thereof, and requests for approval thereof, and other similar documents and to act on behalf of the Company in such matters.

<u>Name</u>	<u>Office/Title</u>
Tracy W. Krohn	Chairman and Chief Executive Officer
James L. Parker	President and Chief Operating Officer
Gary J. Mabie	Vice President
David M. McCubbin	Vice President
Ken Fagan	Vice President
Ivan Irwin, Jr.	Secretary

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of the Company  
this 5<sup>th</sup> day of July, 1996.

  
Assistant Secretary

CORPORATE SEAL

## OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

1-LEC	6-LEC
2-DTH/EYE	7-KDR
3-DTS	8-SJ
4-VLD	9-FILE
5-RJF	

☒ Change of Operator (~~well sold~~)☐ Designation of Agent☐ Designation of Operator☒ Operator Name ~~Change Only~~The operator of the well(s) listed below has changed, effective: 5-1-96

TO: (new operator) AVIARA ENERGY CORPORATION  
 (address) PO BOX 1350  
HOUSTON TX 77251

Phone: (713)871-3400Account no. N5500 (8-6-96)

FROM: (old operator) COLUMBIA GAS DEVELOPMENT  
 (address) PO BOX 1350  
HOUSTON TX 77251

Phone: (713)871-3400Account no. N5035

WELL(S) attach additional page if needed:

**\*KANE SPRINGS UNIT**  
**C.A. UTU60783**

Name: <b>**SEE ATTACHED**</b>	API: <u>43-019-31332</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

## OPERATOR CHANGE DOCUMENTATION

- N/A 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form).
- See 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Reg. 7-25-96) (Rec'd 8-5-96)
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: 00-081180. (1-11-5-8-96)
- See 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. (8-6-96)
- See 6. Cardex file has been updated for each well listed above. (8-6-96)
- See 7. Well file labels have been updated for each well listed above. (8-6-96)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (8-6-96)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

## ENTITY REVIEW

- JCC 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no)        If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

## BOND VERIFICATION - (FEE WELLS ONLY)

- Trust Lands/Reid Bond Rider "Columbia to Aviaara"*  
*\*Reid "Rider" 8-5-96; bond no. chgd to 4274145L*  
*80,000 Aviaara Energy Corporation, United Pacific Ins.*
- JCC 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operator's bond files. *\* Upon Compl. of routing.*
- N/A 3. The FORMER operator has requested a release of liability from their bond (yes/no)       , as of today's date                     . If yes, division response was made to this request by letter dated                     .

## LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

1. Copies of documents have been sent on                      to                      at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

## FILMING

- VDR 1. All attachments to this form have been microfilmed. Today's date: August 21, 1996

## FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form, and the original attachments are now being filed in the Operator Change file.

## COMMENTS

760725 B/Lm/SL App. r/H 5-1-96

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

Aviara Energy Corporation

3. Address and Telephone Number:

P. O. Box 1350, Houston, TX 77251-1350 (713) 871-3400

4. Location of Well

Footages: 100' FSL & 2500' FW:

QQ, Sec., T., R., M.: SESW, Sec. 20, T26S, R19E

5. Lease Designation and Serial Number:

UTU67755X

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Kane Springs #20-1

9. API Well Number:

43 019 31332

10. Field and Pool, or Wildcat:

Wildcat

County: Grand

State: Utah

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandonment             | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion     | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Approximate date work will start \_\_\_\_\_

### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment *                              | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                              | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                            | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection                    | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat                             | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other Annual Status Report 1996 |   |

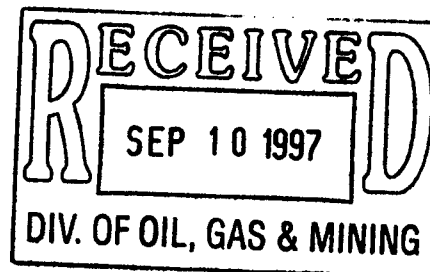
Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Temporarily abandoned. Re-evaluating for stimulation/recompletion/plug & abandonment.



13.

Name & Signature: Victoria Guidry

*Victoria Guidry*

Title: Prod/Regulatory Coord.

Date: 9-9-97

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

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Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

Aviara Energy Corporation

3. Address and Telephone Number:

P. O. Box 1350, Houston, TX 77251-1350 (713) 871-3400

4. Location of Well

Footages: 1000' FSL & 2800' FWT

QQ, Sec., T., R., M.: SESW, Sec. 20, T26S, R19E

5. Lease Designation and Serial Number:

UTU67755X

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Kane Springs #20-1

9. API Well Number:

43 019 31332

10. Field and Pool, or Wildcat:

Wildcat

County: Grand

State: Utah

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

### NOTICE OF INTENT

(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandonment             | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion     | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Approximate date work will start \_\_\_\_\_

### SUBSEQUENT REPORT

(Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment                                | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                              | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                            | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection                    | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat                             | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other Annual Status Report 1997 |   |

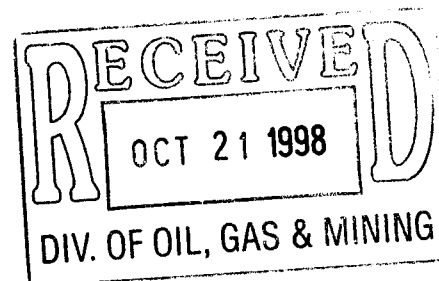
Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Temporarily abandoned. Re-evaluating for stimulation/recompletion/plug & abandonment.



13.

Name & Signature: Victoria Guidry

*Victoria Guidry*

Title: Prod/Regulatory Coord.

Date: 10-13-98

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

5. Lease Designation and Serial Number

UTU67755X

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Kane Springs Federal Unit

8. Well Name and Number:

Kane Springs Fed #20-1

9. API Well Number:

43 019 31332

10. Field and Pool, or Wildcat

Wildcat

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator

Aviara Energy Corporation

3. Address and Telephone Number.

P.O. Box 1350, Houston TX 77251-1350

713-871-3400

4. Location of Well

Footages: 100' FSL &amp; 2500' FWL

County: Grand

QQ, Sec., T., R., M.: SESW, Sec. 20, T26S, R19E

State: Utah

#### 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

##### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

##### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon*   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing  | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans  | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Convert to Injection   | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize  | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Extension of T&amp;A Status--Annual 1998</u> |   |

Date of work completion \_\_\_\_\_

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

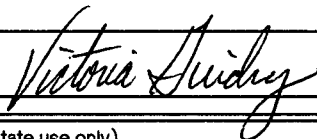
\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Temporarily abandoned. Re-evaluating for stimulation/recompletion/plug & abandonment.

13.

Name &amp; Signature



Title

Victoria Guidry

Production/Regulatory Coordinator

Date

03/22/99

(This space for State use only)

Accepted by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date:

5-20-99

Initials:

CHD

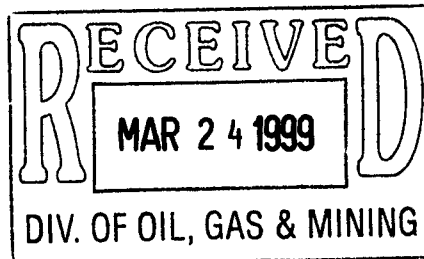
Date: 3-25-99

By:

RTK

(See Instructions on Reverse Side)

(5/94)



**Aviara Energy  
Corporation**

February 28, 2000

State of Utah  
Division of Oil, Gas, and Mining  
1594 W. North Temple  
Suite 1210  
Salt Lake City, Utah 84078-2799

Attention: Mr. John R. Baza

Reference: Shut-in and Temporarily Abandoned Wells  
Annual Status Update

RECEIVED  
FEB 29 2000  
DIVISION OF OIL, GAS AND MINING

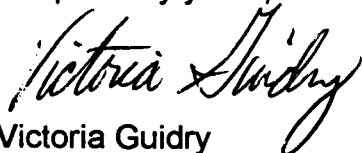
Dear Mr. Baza:

Enclosed please find a Sundry Notice for several inactive wells operated by Aviara Energy Corporation in Utah.

These wells are presently uneconomical to produce and are periodically evaluated for possible stimulation, recompletion or plug and abandonment. Aviara Energy would like to have the shut-in or temporarily abandoned status extend for another year.

If you require additional information or have any questions please contact me at 713-871-3444.

Respectfully yours,



Victoria Guidry  
Production/Regulatory Coordinator

/vjg

Enclosures

H:\docs\...\reg\021b



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator

**Aviara Energy Corporation**

3. Address and Telephone Number.

**P.O. Box 1350, Houston TX 77251-1350**

**713-871-3400**

4. Location of Well 1000 FSL 2400 FWL

Footages: 100' FSL & 2500' FWL

QQ, Sec., T., R., M.: **SESW, Sec. 20, T26S, R19E**

5. Lease Designation and Serial Number

**UTU67755X**

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

**Kane Springs Federal Unit**

8. Well Name and Number:

**Kane Springs Fed #20-1**

9. API Well Number:

**43 019 31332**

10. Field and Pool, or Wildcat

**Wildcat**

County: **Grand**

State: **Utah**

#### 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

##### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

##### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon*   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing  | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans  | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Convert to Injection   | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize  | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Extension of T&amp;A Status--Annual 1999</u> |   |

Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Temporarily abandoned. Re-evaluating for stimulation/recompletion/plug & abandonment.

13

Name & Signature

*Victoria Guidry*

Title

**Victoria Guidry**

**Production/Regulatory Coordinator**

Date **02/28/00**

(This space for State use only)

The Extension for Shut-in Time issued 2-MAR-1999 **EXPIRES** 1-APR-2000  
In accordance with R649-3-36.3, provide the Division of Oil, Gas & Mining a Showing  
of Good Cause as to why this well should not be plugged. 74

(5/94)

COPY SENT TO OPERATOR

Date: 3-2-00  
Initials: CHD

(See Instructions on Reverse Side)

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

UTU 67755X

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #20-1

9. API Well No.

43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State

Grand County, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Aviara Energy Corporation

3a. Address

P.O. Box 1350, Houston TX 77251-1350

3b. Phone No. (include area code)

713-871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1000' FSL & 2400' FWL  
SESW, Sec. 20, T26S, R19E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                 |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                 |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>Annual</u> |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>Status Report</u>                                    |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            | <u>2000</u>   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Aviara Energy Corp. requests an extension of the temporarily abandon status of this well until April 1, 2001.

Aviara would like to maintain this status, as stated in the recently submitted Unit Plan of Development, while "awaiting further tests and evaluation to determine if stimulation or other treatment could establish commercial production". This evaluation could possibly lead to a reentry of this well reducing the impact in this area in the event of further activity.

RECEIVED

MAR 29 2000

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Victoria Guidry

Title

Production/Regulatory Coordinator

Date

03/28/00

The Extension for Shut-in or Temporarily Abandonment may be issued in accordance with

Regulations 36.1.1, 1.2 & 1.3, upon receipt and review, by the Division of Oil, Gas & Mining of

the supporting data specified in the cited rule. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

10-Mar-2000

Accepted by the  
Utah Division of  
Oil, Gas & Mining

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Aviara Energy Corporation

3a. Address  
P.O. Box 1350, Houston TX 77251-1350

3b. Phone No. (include area code)  
713-871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1000' FSL & 2400' FWL  
SESW, Sec. 20, T26S, R19E

5. Lease Serial No.

UTU 67755X

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
Kane Springs Federal Unit

8. Well Name and No.  
Kane Springs Fed. #20-1

9. API Well No.  
43-019-31332

10. Field and Pool, or Exploratory Area  
Wildcat

11. County or Parish, State  
Grand County, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Annual</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Status Report</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<u>2001</u>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Aviara Energy Corp. requests an extension of the temporarily abandon status of this well until April 1, 2002.

Aviara would like to maintain this status while awaiting future field development leading to possible reentry of this well, which would reduce the impact of further activity in this area.

**THIS SUNDRY IS BEING RETURNED, INSUFFICIENT DATA WAS SUBMITTED TO APPROVE THE REQUESTED ACTION.**

The well has been nonactive or nonproductive for 7.92 years. In accordance with R649-3-36, a sundry notice shall be filed indicating the reasons and length of time for the well shut-in or temporary abandonment and a demonstration of the well's integrity; evidence that the well is not a risk to public health and safety or the environment. Upon receipt of this required information, the Division will either approve the request or require remedial measures to be taken to establish and maintain the wells integrity.

APR 2 2001  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Victoria Guidry

Title

Production/Regulatory Coordinator

Date

03/29/01

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**HUNT PETROLEUM (AEC), INC.**  
**1601 Elm Street, Suite 3400**  
**Dallas, Texas 75201**

July 11, 2002

State of Utah  
Department of Oil, Gas & Minerals  
1594 West N. Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

Attn: Mr. Jim Hamilton

Re: Travelers Bond No. 103860066

Dear Sir:

This is to advise you that Aviara Energy Corporation has changed its name to Hunt Petroleum (AEC), Inc., effective July 1, 2002. Attached is a Surety Rider to Travelers Bond #103860066 (which replaced CNA Bond No. 159209096) and a copy of the Surety Bond on State of Utah Form 4A currently on file with the State of Utah, Department of Natural Resources.

If you have any questions please give me a call at (214) 880-8916.

Yours very truly,

*Mary Melvin*

Mary Melvin  
Legal Assistant

attachments

cc: Max Gardner (w/enc.)  
Donny Worthington (w/enc.)  
Gerald Phillips (w/enc.)

Receipt acknowledged this \_\_\_ day of July 2002.

STATE OF UTAH, Department of Oil, Gas & Minerals

By: \_\_\_\_\_

Title: \_\_\_\_\_

**RECEIVED**  
JUL 15 2002  
DIVISION OF  
OIL, GAS AND MINING

**OPERATOR CHANGE WORKSHEET****ROUTING**

1. GLH

2. CDW ☒

3. FILE

Change of Operator (Well Sold)

Designation of Agent

**X Operator Name Change**

Merger

The operator of the well(s) listed below has changed, effective: **07-01-2002**

<b>FROM: (Old Operator):</b>	<b>TO: ( New Operator):</b>
AVIARA ENERGY CORPORATION	HUNT PETROLEUM (AEC) INC
Address: 1601 ELM STREET, STE 3400	Address: 1601 ELM STREET, STE 3400
DALLAS, TX 75201	DALLAS, TX 75201
Phone: 1-(214)-880-8850	Phone: 1-(214)-880-8850
Account No. N5500	Account No. N2180

**CA NO.****Unit:****KANE SPRINGS****WELL(S)**

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
KANE SPRINGS FEDERAL 10-1	10-25S-18E	43-019-31331	11414	FEDERAL	OW	P
KANE SPRINGS FEDERAL 27-1	27-25S-19E	43-019-31310	11180	FEDERAL	OW	P
KANE SPRINGS FEDERAL 28-1	28-25S-19E	43-019-31325	11354	FEDERAL	OW	S
KANE SPRINGS FEDERAL 25-19-34-1	34-25S-19E	43-019-31334	11521	FEDERAL	OW	P
KANE SPRINGS FEDERAL 20-1	20-26S-19E	43-019-31332	11670	FEDERAL	OW	S
KANE SPRINGS FEDERAL 19-1A	19-26S-20E	43-019-31324	11353	FEDERAL	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 07/15/2002
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 08/07/2002
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 08/07/2002
- Is the new operator registered in the State of Utah: YES Business Number: 56883-0143
- If **NO**, the operator was contacted on: N/A
- (R649-9-2) Waste Management Plan received on: IN PLACE
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 07/01/2002

---

**7. Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 07/01/2002

---

**8. Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

---

**9. Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**,

for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 07/08/2002

---

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 08/07/2002

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 08/07/2002

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

---

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

---

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: CO-1274

---

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: N/A

---

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A

The Division sent response by letter on: N/A

---

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

---

**COMMENTS:**

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**AVIARA**  
**ENERGY CORPORATION**

One Riverway, Suite 700  
Houston, Texas 77056

July 19, 2001

State of Utah  
Division of Oil, Gas, and Mining  
1594 W. North Temple, Suite 1210  
Salt Lake City, UT 84116

Attention: Mr. John Baza

Reference: Shut-in/Temporarily Abandoned Wells  
Annual Status Update 2001  
Re-submitted Request

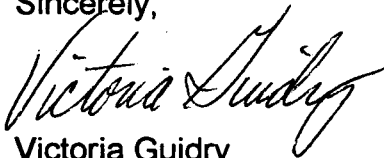
Dear Mr. Baza:

Enclosed please find a Sundry Notice for several inactive wells operated by Aviara Energy Corporation in Utah. A request to extend the shut-in and temporarily abandoned status of these wells for another year was submitted in late March 2001, however they were returned without approval due to insufficient data.

Aviara is re-submitting these Sundry Notices for approval. Well integrity tests have been run which indicate that the wells are not a risk to public health and safety or the environment as specified in R649-3-36.

I apologize for the delay in forwarding this information; I was out of the office when the test results were received from the field personnel. Please contact me at 713-871-3444 if you require further information.

Sincerely,



Victoria Guidry  
Production/Regulatory Coordinator

/vlg

Enclosures

H:\...\docs\utah\001

*[Handwritten signature]*  
JUL 13 2001  
C.L.C.



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Colorado State Office  
2850 Youngfield Street  
Lakewood, Colorado 80215-7076

IN REPLY REFER TO:  
3106 (MM)

July 22, 2002

## NOTICE

Hunt Petroleum (AEC), Inc.  
1601 Elm Street, Suite 3400  
Dallas, TX 75201

:  
:  
Oil and Gas  
:

### Name Change Recognized

Acceptable evidence was filed and accepted by this office concerning the name change of Aviara Energy Corporation to Hunt Petroleum (AEC), Inc. with Hunt Petroleum (AEC), Inc. being the surviving entity. For our purposes, the name change was recognized effective July 1, 2002 the date of acceptance by the Secretary of the State of Delaware.

A rider changing the name of the principal on Nationwide bond number 159209244 (BLM Bond CO-1274) previously held by Aviara and issued by Continental Casualty Company, was changed to Hunt Petroleum (AEC), Inc. effective July 12, 2002.

The oil and gas lease files identified on the enclosed Exhibit A, supplied by Hunt Petroleum (AEC), Inc. were updated to reflect the new name. We have not abstracted the lease files to determine if the entities affected by the name change hold an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Mineral Management Services (MMS) and applicable Bureau of Land Management (BLM) Field Offices of the name change by copy of this notice. If our field offices require additional documentation for changes of operator, they will contact you.

If you identify additional leases where the affected parties maintain an interest, please contact this office and we will document the files under our jurisdiction with a copy of this Notice. If the leases are under the jurisdiction of another State Office, we will notify them.

If you have any questions concerning this correspondence, please call Martha Maxwell at (303)239-3768.

*Michelle K. Derringer*  
FOR Beverly Derringer  
Chief, Fluid Minerals Adjudication

Exhibit A sent to Eastern SO, New Mexico SO, Montana SO, Utah SO, Wyoming SO &  
MMS-MRM, MS357B1, PO Box 5760, Denver, CO 80217  
Decision Letter sent to All State Offices via BLM\_Fluids\_Forum



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes		5. Lease Designation and Serial Number <b>UTU67755X</b>
		6. Indian, Allottee or Tribe Name:
		7. Unit Agreement Name: <b>Kane Springs Federal Unit</b>
		8. Well Name and Number: <b>Kane Springs Fed #20-1</b>
		9. API Well Number: <b>43 019 31332</b>
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		10. Field and Pool, or Wildcat <b>Wildcat</b>
2. Name of Operator <b>Aviara Energy Corporation</b>		
3. Address and Telephone Number.  <b>P.O. Box 1350, Houston TX 77251-1350</b>		<b>713-871-3400</b>
4. Location of Well Footages: <sup>1000</sup> <del>100</del> <sup>2400</sup> <del>2500</del> FSL & FWL QQ, Sec., T., R., M.: <b>SESW, Sec. 20, T26S, R19E</b>		County: <b>Grand</b> State: <b>Utah</b>

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other <u>Extension of T&amp;A Status</u>	<input type="checkbox"/> Abandon* <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input checked="" type="checkbox"/> Other <u>Annual Status Report 2001 &amp; Integrity Test</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recomplete <input type="checkbox"/> Perforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Perforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion <u>05/29/01</u>  Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Aviara Energy Corp. is re-submitting it's request for an extension of the temporarily abandon status of this well until April 1, 2002. (The original request was submitted on 3/29/01).

In accordance with R649-3-36 the results of the well integrity test performed on May 29, 2001 is attached. The well was tested to 970 psi and held okay for 1-1/2 hours.

Aviara would like to maintain this status while awaiting future field development leading to possible reentry of this well, which would reduce the impact of further activity in this area.

13. Name & Signature Victoria Guidry Title Production/Regulatory Coordinator Date 07/19/01

(This space for State use only)

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

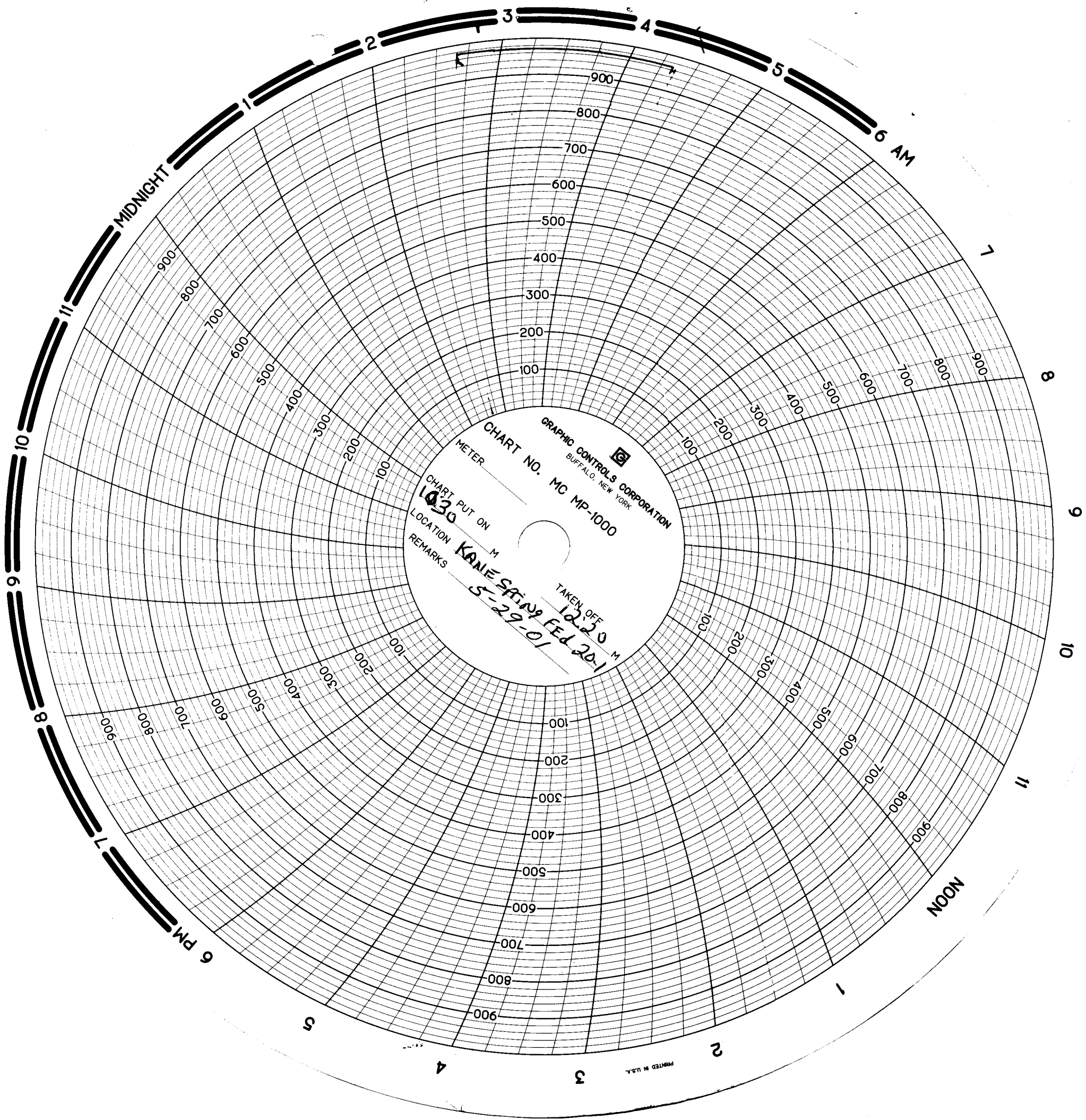
Federal Approval Of This  
Action Is Necessary

Date: 9/17/01

By: Dak D... (See Instructions on Reverse Side)

STATEXTGA: 4/1/2002

COPY SENT TO OPERATOR  
 Date: 9-17-01  
 Initials: CHD



Tested to 970 psi  
Held OK for 1 1/2 hrs.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

OTHER See attachment

2. NAME OF OPERATOR:

Hunt Petroleum (AEC), Inc.

3. ADDRESS OF OPERATOR:

1601 Elm Street, Suite 3400 Dallas, TX 75201

PHONE NUMBER:

214-880-8855

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Change of company from Avicara Energy Inc. to Hunt Petroleum (AEC), Inc.  
effective July 1, 2002.

NAME (PLEASE PRINT) Lisa Augustine

TITLE Agent

SIGNATURE

*Lisa Augustine*

DATE August 6, 2002

(This space for State use only)

RECEIVED

AUG 07 2002

DIVISION OF  
OIL, GAS AND MINING

api	well_name	section	township	range	ll_status_m
4301931310	KANE SPRINGS FED 27-1	27	250S	190E	P
4301931324	KANE SPRINGS FED 19-1A	19	260S	200E	P
4301931325	KANE SPRINGS FED 28-1	28	250S	190E	S
4301931331	KANE SPRINGS FED 10-1	10	250S	180E	P
4301931332	KANE SPRINGS FED 20-1	20	260S	190E	S
4301931334	KANE SPRINGS FED 25-19-34-1	34	250S	190E	P
4301931363	CANE CREEK FEDERAL 7-1	07	250S	190E	DRL
4301931364	CANE CREEK FED 11-1	11	260S	190E	DRL
4301931365	CANE CREEK 30-1	30	260S	200E	APD
4301931379	KANE SPRINGS FED 3-1	03	260S	190E	APD
4303730572	GOVT EVELYN CHAMBERS 1	06	310S	240E	S
4303730612	GOVT EVELYN CHAMBERS 2	05	310S	240E	S
4304731768	COWDEN 31-3-C	31	060S	210E	S
4304731769	FEDERAL 33-6-F	33	060S	210E	P
4304731787	FEDERAL 33-8-N	33	060S	210E	P
4304731804	FEDERAL 33-3-J	33	060S	210E	S
4304731844	FEDERAL 33-7-L	33	060S	210E	P
4301931341	KANE SPRINGS 16-1	16	250S	180E	A
4304731776	ALTA 5-1-B	05	070S	210E	P
4304731843	ALTA 5-2-C	05	070S	210E	P



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

April 28, 2003

Intrepid Oil & Gas, L.L.C.  
Attn: Jan Podoll  
700 17<sup>th</sup> Street, Suite 1700  
Denver, Colorado

Re: Cane Creek Unit  
Grand & San Juan Counties, Utah

Gentlemen:

On April 25, 2003, we received an indenture dated April 23, 2003, whereby Hunt Petroleum (AEC), Inc. resigned as Unit Operator and Intrepid Oil & Gas, L.L.C. was designated as Successor Unit Operator for the Cane Creek Unit, Grand and San Juan Counties, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 28, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Cane Creek Unit Agreement.

Your statewide (Utah) oil and gas bond No. UTB000029 will be used to cover all operations within the Cane Creek Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

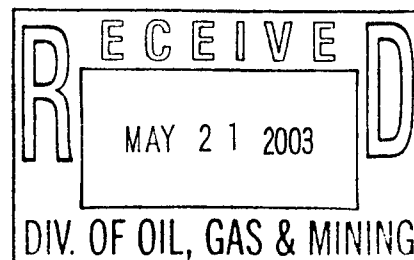
/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

### Enclosure

bcc: Field Manager - Moab (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File - Cane Creek Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:4/28/03



## Results of query for MMS Account Number UTU80000

Production	API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Quarter/Quarter	File
<u>Production</u>	<u>4301931325</u>	HUNT PETROLEUM (AEC) INC	28-1 KANE SPRINGS	TA	UTU48351	UTU80000X	25S	19E	28	SWSE	WILC
<u>Production</u>	<u>4301931332</u>	HUNT PETROLEUM (AEC) INC	20-1 KANE SPRINGS	TA	UTU54037	UTU80000X	26S	19E	20	SESW	BIG I
<u>Production</u>	<u>4301931363</u>	HUNT PETROLEUM (AEC) INC	7-1	OSI	UTU51239	UTU80000X	25S	19E	7	SENW	WILC
<u>Production</u>	<u>4301931364</u>	HUNT PETROLEUM (AEC) INC	11-1	GSI	UTU65972	UTU80000X	26S	19E	11	SENW	UND

*DISCLAIMER for online data: No warranty is made by the BLM for use of the data for purposes not intended by the BLM.*

(June 1990)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

2003 MAY 29 A 10:49

**SUBMIT IN TRIPLICATE**

## 1. Type of Well



Oil Well



Gas well



Other

## 2. Name of Operator

Hunt Petroleum (AEC), Inc.

## 3. Address and Telephone No.

P. O. Box 1350 Houston, Texas 77251-1350

713-871-3400

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1000' FSL & 2400' FWL  
SESW, Sec. 20, T26S, R19E

## 5. Lease Designation and Serial No.

~~UTU 07733X~~

UTU 54037

## 6. If Indian, Allottee or Tribe Name

## 7. If unit or CA, Agreement Designation

Kane Springs Federal Unit

## 8. Well Name and No.

Kane Springs Fed. #20-1

## 9. API Well No.

43-019-31332

## 10. Field and Pool, or Exploratory Area

## 11. County or Parish, State

Grand County, UT

## 12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

## TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing repair



Altering Casing

Other Change of Operator

Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

Hunt Petroleum (AEC), Inc., designated Unit Operator hereby resigns as operator per Resignation of Unit Operator and Designation of Successor Unit Operator forms dated 4/23/2003.  
Intrepid Oil & Gas, LLC will be designated operator upon approval.

## 14. I hereby certify that the foregoing is true and correct

Signed

Bobby Donohue

Title

Landman

Date

April 23, 2003

(This space of Federal or State office use.)

Approved by

ACCEPTED

Title

Division of Resources  
Moab Field Office

Date

MAY 29 2003

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JUN 09 2003

\*See Instruction on Reverse Side

DIV. OF OIL, GAS &amp; MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas well ☐ Other

2. Name of Operator  
Intrepid Oil & Gas, LLC

3. Address and Telephone No.  
700 17th Street, Suite 1700, Denver, CO 80202 303.296.3006

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1000' FSL, 2400' FWL  
SESW Sec 20, T26S-R19E

5. Lease Designation and Serial No. **UTU 67755X**  
6. If Indian, Allottee or Tribe Name  
7. If unit or CA, Agreement Designation  
**Kane Springs Unit**  
8. Well Name and No.  
**Kane Springs Fed #20-1**  
9. API Well No.  
**43-019-31332**  
10. Field and Pool, or Exploratory Area  
11. County or Parish, State  
**Grand County, UT**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Completion or Recompletion Report and Log for

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

On April 28, 2003, Intrepid Oil & Gas, LLC was designated successor operator of the Kane Springs Federal Unit. Effectively immediately, Intrepid Oil & Gas, LLC accepts designation as successor operator for this well. The following information is relevant:

Intrepid Oil & Gas, LLC  
700 17th Street, Suite 1700  
Denver, CO 80202  
Attn: H. Richard Miller  
303.296.3003 - Phone  
303.298.7502 - Fax

**OPERATIONS WILL BE CONDUCTED UNDER BLM BOND #UTB000029**

14. I hereby certify that the foregoing is true and correct

Signed H. Richard Miller  
H. Richard Miller

Title Special Projects Manager

Date: April 29, 2003

(This space of Federal or State office use.)

Approved by ACCEPTED

Title

Division of Resources  
Moab Field Office

**RECEIVED**

**MAY 29 2003**

Conditions of approval, if any:

**JUN 09 2003**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instruction on Reverse Side**

DIV. OF OIL, GAS & MINING

cc: UDOGM, Hunt Petroleum

Intrepid Oil and Gas, LLC  
Well No. 20-1  
Sections 20, T. 26 S., R. 19 E.  
Leases UTU54037  
Grand County, Utah

#### CONDITIONS OF ACCEPTANCE

Acceptance of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Intrepid Oil and Gas, LLC is considered to be the operator of the above well effective April 28, 2003, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UTB000029 (Principal –Intrepid Oil and Gas, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43CFR 3106.7-2 continuing responsibility are met.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Temporarily Abandoned</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>U-54037</u>
2. NAME OF OPERATOR: <u>Hunt Petroleum (AEC), Inc.</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Kane Springs Federal Unit</u>
3. ADDRESS OF OPERATOR: <u>P. O. Box 1350</u> CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77251</u>		7. UNIT or CA AGREEMENT NAME: <u>Kane Springs Federal Unit</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>1000' FSL &amp; 2400' FWL</u>		8. WELL NAME and NUMBER: <u>Kane Springs Federal #20-1</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SESW 20 26S 19E</u>		9. API NUMBER: <u>43-019-31332</u>
PHONE NUMBER: <u>713-871-3400</u>		10. FIELD AND POOL, OR WILDCAT:

COUNTY: Grand

STATE: UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** Clearly show all pertinent details including dates, depths, volumes, etc.

On April 28, 2003, Hunt Petroleum (AEC), Inc. resigned as Operator of the Kane Springs Federal Unit and Intrepid Oil & Gas, LLC was designated successor Unit Operator. Concurrent with this action, Hunt Petroleum (AEC), Inc. resigns as Operator of this well and names Intrepid Oil & Gas, LLC as successor Operator.

NAME (PLEASE PRINT) Melinda Mayse TITLE Regulatory Coordinator Agent  
SIGNATURE Melinda Mayse DATE June 24, 2003

(This space for State use only)

RECEIVED

JUN 25 2003

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		6. LEASE DESIGNATION AND SERIAL NUMBER: See List below
2. NAME OF OPERATOR: Intrepid Oil & Gas, LLC		7. FIELD AND POOL, OR WILDCAT: See List below
3. ADDRESS OF OPERATOR: 700 17th Street CITY Denver STATE CO ZIP 80202 PHONE NUMBER (303) 296-3006		8. WELL NAME AND NUMBER: See List below
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: Grand UTUQTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: UTAH		9. API NUMBER: See List below

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMBINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

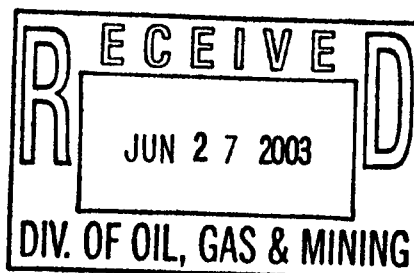
On April 28, 2003, Intrepid Oil & Gas, LLC accepted designation as successor operator for the Kane Springs Federal Unit and became operator for the following wells:  
 Kane Springs Federal #19-1A - UTU-53526 - API 4301931324 - 800' FSL, 1918' FEL, 19-26S-20E  
 Kane Springs Federal #25-19-34-1 - UTU-53624 - API 4301931334 - 934' FNL, 1678' FEL, 34-26S-19E  
 Kane Springs Federal #27-1 - UTU-65971 - API 4301931310 - 1700' FEL, 1650' FSL, 27-25S-19E  
 Kane Springs Federal #10-1 - UTU-47858 - API 4301931331 - 2333' FSL, 2112' FEL, 10-25S-18E  
 Kane Creek #11-1 - UTU-65972 - API 4301931364 - 2220' FNL, 2060' FWL, 22-26S-19E  
 Kane Springs Federal #28-1 - UTU-50678 - API 4301331325 - 1900' FSL, 1900' FEL, 28-25S-19E  
 Kane Springs Federal #20-1 - UTU-54037 - API 4301931332 - 1000' FSL, 2400' FWL, 20-26S-19E

NAME (PLEASE PRINT) H. Richard MillerTITLE Special Projects ManagerSIGNATURE H. Richard MillerDATE 6/27/2003

(This space for State use only)

(5/2000)

(See Instructions on Reverse Side)



## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

04/28/2003

**FROM: (Old Operator):**

HUNT PETROLEUM CORPORATION

1601 Elm Street, Suite 3400

Dallas, TX 75201

Phone: 1-(214) 880-8914

Account No. N 2180

**TO: ( New Operator):**

Intrepid Oil &amp; Gas, LLC

700 17th Street, Suite 1700

Denver, CO 80202

Phone: 1-(303) 296-3006

Account No. N6810

CA No.

Unit:

Kane Springs &amp; Cane Creek

## WELL(S)

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
Kane Springs Unit								
KANE SPRINGS FED 27-1	27	250S	190E	4301931310	11180	Federal	OW	P
KANE SPRINGS FED 19-1A	19	260S	200E	4301931324	11353	Federal	OW	P
KANE SPRINGS FED 28-1	28	250S	190E	4301931325	11354	Federal	OW	S
KANE SPRINGS FED 10-1	10	250S	180E	4301931331	11414	Federal	OW	P
KANE SPRINGS FED 20-1	20	260S	190E	4301931332	11670	Federal	OW	S
KANE SPRINGS FED 25-19-34-1	34	250S	190E	4301931334	11521	Federal	OW	P
Cane Creek Unit								
CANE CREEK FED 11-1	11	260S	190E	4301931364	13477	Federal	OW	P

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/25/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/27/2003
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/30/2003
- Is the new operator registered in the State of Utah: YES Business Number: 2029416-0161
- If **NO**, the operator was contacted on: \_\_\_\_\_

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 04/28/2003 BIA n/a

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 04/28/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 07/16/2003

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 07/16/2003

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000029

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: N/A

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

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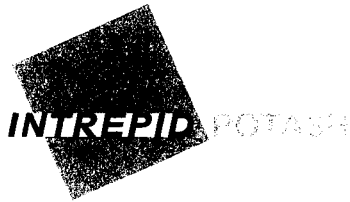
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The Intrepid Companies  
700 17th Street, Suite 1700  
Denver, CO 80202  
303.296.3006  
303.298.7502 fax

December 20, 2004

Mr. Dustin Doucet  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 W. North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, UT 84114-5801

**RECEIVED**

**DEC 23 2004**

DIV. OF OIL, GAS & MINING

Dear Mr. Doucet,

Attached are copies of Abandonment Procedures for 3 of our wells in the Cane Creek Unit. Please return an approved copy in the self addressed stamped envelope upon your approval.

Sincerely,

A handwritten signature in cursive script that reads "Richard Miller".

Richard Miller  
Special Projects Manager

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**SUNDRY NOTICES AND REPORTS ON WELLS**

FORM APPROVED OM B No. 1004-0137

Expires March 31, 2007

5. Lease Serial No.

**UTU-67755X**

6. If Indian, Allottee or Tribe Name

**N/A**

7. If Unit or CA/Agreement, Name and/or #

**Kane Springs Federal Unit**

8. Well Name and No.

**Kane Springs Fed 20-1**

9. API Well Number

**43-019-31332**

10. Field & Pool, or Exploratory Area

**Wildcat**

11. County or Parish, State

**Grand County, UT**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals*

1. Type of Well

**OILWELL [X] GAS WELL [ ] OTHER [ ]**

2. Name of Operator

**Intrepid Oil and Gas LLC**

3a. Address

**700 17th Street, Suite 1700  
Denver CO 80202**

3b. Phone No. (include area code)

**303-298-1951**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**1000 400' FSL & 2500' FWL  
SESW, Sec 20, T26S, R19E**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

**TYPE OF ACTION**

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Deepen

☐ Production (Start/Resume)

☐ Water Shut-Off

☐ Alter Casing

☐ Fracture Treat

☐ Reclamation

☐ Well Integrity

☐ Casing Repair

☐ New Construction

☐ Recomplete

☐ Other

☐ Change Plans

☒ Plug and Abandon

☐ Temporarily Abandon

☐ Convert to Injection

☐ Plug Back

☐ Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the Proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones.

Attach the Bond under which the work will be performed or provide the Bond No. onfile with the BLM/BIA. Required subsequent reports shall be filed within 30 days

following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once

testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has

determined that the site is ready for final inspection.)

Request permission to Abandon the above well per the attached procedure

RECEIVED

DEC 23 2004

DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR

Date: 12-29-04

Initials: CHD

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **Richard Miller**

Title

**Spec. Proj. Mgr**

Signature **Richard Miller**

Date

**12/20/04**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By:

Title

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date

Office

**Federal Approval Of This  
Action Is Necessary**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

By: **[Signature]**



## PLUG & ABANDONMENT PROCEDURE

December 20, 2004

### Kane Springs Federal #20-1

Wildcat

Surface: 2400' FWL & 1000' FSL

BHL: 513' FNL & 1049' FWL, Section 20, T-26-S, R-19-E

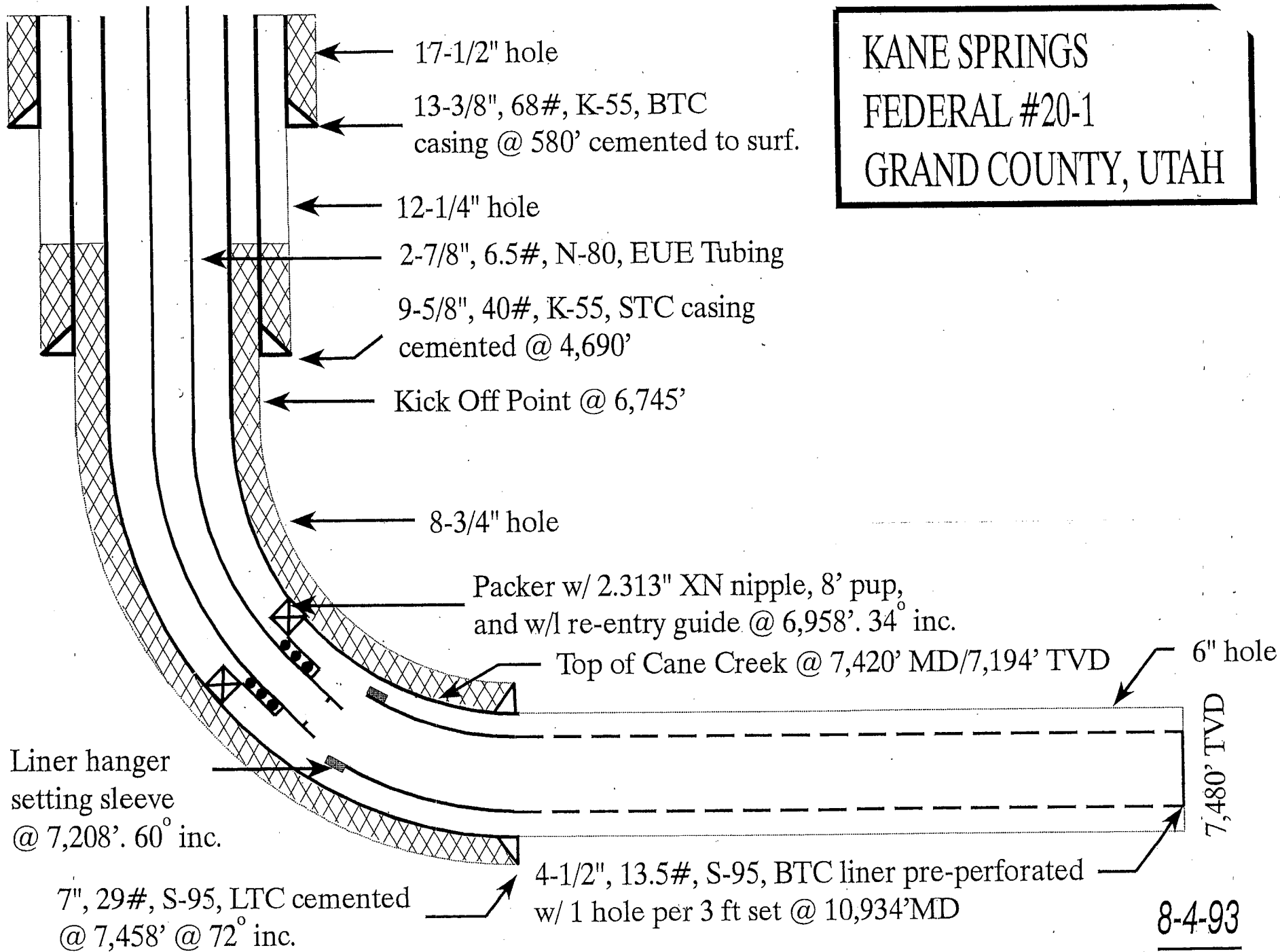
Grand County, Utah / API #43-019-31332

Note: All cement volumes use 10% excess per 1000' of depth, both inside and outside; or use 100% excess outside casing, 50' excess inside casing and 50' excess for a casing annulus, whichever is greater. The stabilizing wellbore fluid will be produced water least 9.5 ppg. Cement I either Class B Neat, mixed at 15.6ppg with a 1.18 cf/sx yield for plugs below 6000' and ASTM Type III, mixed at 14.8ppg with 1.32 cf/sx yield for plugs above 6000'.

1. Prepare location for rig and other equipment. Access to location will need dirt work prior to rig arrival. Dig a small earthen pit for well returns and cement wash up.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with brine as necessary. ND wellhead and NU BOP. Test BOP. Comply with all UDOGM, BLM, and Intrepid safety rules and regulations.
3. PU on tubing and release seal assembly from Model DB packer at 6960'. TOH and visually inspect 2-7/8" tubing, LD packer. If necessary LD this tubing and PU a workstring.
4. Round trip a 7" 29# casing scraper to 6930' or as deep as possible.
5. **Plug #1 (4-1/2" Liner top and 7" Casing shoe: 7508'- 6880')**: TIH with tubing and set a 7" CR retainer at 6930' above packer. Pressure test tubing to 1500#. Load casing with brine and circulate well clean. Pressure test casing to 1000#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix and pump 222 sxs Class B cement, squeeze 204 sxs below the CR to cover the liner top and 7" casing shoe, then spot 18 sxs above the CR. PUH to 5800'.
6. Rig up a wireline unit and run a Cement Bond log to determine the top of cement outside the 7" casing. If the TOC is appropriate to recover some of the 7" casing then do the following: perforate the 7" casing 30' above the 7" X 9-5/8" annulus cement top. Establish circulation to surface out the 7" X 9-5/8" annulus with water; circulate clean. ND the BOP and weld a 7" slip-on collar onto the 7" casing stub. Cut the 7" casing at the depth perforated. Pull and LD as much 7" casing as possible.
7. **Plug #2 (7" Casing isolation plug: 5800' – 5700')**: Mix 24 sxs Type III cement and spot balanced plug inside casing to isolate this interval. PUH with tubing to 4740'.
8. **Plug #3 (9-5/8" Casing shoe: 4740' – 4640')**: Mix 24 sxs Type III cement and spot balanced plug inside casing to cover the 9-5/8" casing shoe. TOH with tubing.
9. **Plug #4 (7" Casing stub: depth to be determined)**: TIH with tubing to 50' below the 7" casing stub. Mix 50 sxs Type III cement and spot balanced plug inside casing to cover the 7" casing stub. TOH with tubing.

10. **If unable to pull 7" casing**, or it is determined that casing recovery is not economic or feasible, then set plug #4 from 2700' to 2600' (approximately 1/2 way in between the 9-5/8" casing shoe and the 13-3/8" casing shoe). First, perforate 3 HSC holes at 2700' and establish rate into. Set a 7" cement retainer at 2650' and squeeze 30 sxs outside the 7" casing and leave 25 sxs inside. TOH with tubing.
11. **If able to pull 7" casing**, then after setting plug #4 to cover the 7" casing stub then: Rig up a wireline unit and run a Cement Bond log to determine the top of cement outside the 9-5/8" casing. If the TOC is appropriate to recover some of the 9-5/8" casing, then do the following: perforate the 9-5/8" casing 30' above the 9-5/8" X 13-3/8" annulus cement top. Establish circulation to surface out the 9-5/8" X 13-5/8" annulus with water; circulate clean. ND the BOP and weld a 9-5/8" slip-on collar onto the 9-5/8" casing stub. Cut the 9-5/8" casing at the depth perforated. Pull and LD as much 9-5/8" casing as possible.
12. **Plug #5 (9-5/8" Casing stub: depth to be determined)**: TIH with tubing to 50' below the 9-5/8" casing stub. Mix 60 sxs Type III cement and spot balanced plug inside casing to cover the 9-5/8" casing stub. TOH with tubing.
13. **Plug #6 (13-3/8" casing shoe, 630' – 530')**: Perforate 6 squeeze holes through the existing casings (possibly the 7" and 9-5/8"). Establish circulation to surface out the bradenhead valve and intermediate valves. TIH with tubing to 580'. Mix and spot 74 sxs Type III cement, pull up with tubing and squeeze 24 sxs outside 9-5/8" x 12-1/4" casing, 14 sxs outside 9-5/8" x 13-3/8" casing, 12 sxs outside 7" x 9-5/8" annulus, and leave 24 sxs inside 7" casing. TOH and LD all tubing.
14. **Plug #7 (Surface; 100'–Surface)**: Perforate 6 squeeze holes through the existing casing (possibly the 7" and 9-5/8"). Establish circulation to surface out the bradenhead and intermediate valves. Mix and pump approximately 100 sxs type III cement down the casings to circulate good cement out the bradenhead and annuli. WOC.
15. Cut off surface and production casing below ground level. Fill well with cement as necessary and install P&A marker to comply with regulations. RD, MOL, and restore location per BLM requirements.

KANE SPRINGS  
FEDERAL #20-1  
GRAND COUNTY, UTAH



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Intrepid Oil & Gas LLC Operator Account Number: N 6810  
Address: 700 17th St, Suite 1700  
city Denver  
state CO zip 80202 Phone Number: (303) 296-3006

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301931332	Kane Springs Fed 20-1		SESW	20	20S	20E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	11670	14510				1/18/2005	
<b>Comments:</b> Correction requested by operator due to unit change. Please correct reports effective 5/18/2004.							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Earlene Russell For DOGM

Name (Please Print)

*ER*

Signature

Engineering Tech

Title

1/18/2005

Date

INTREPID POTASH

## INTREPID POTASH - MOAB, LLC

P.O. Box 1208, Moab, Utah 84532 • Office 435-259-7171 • FAX 435-259-7100

## FAX COVER SHEET

Attention: Dustin Doucet From: Richard MillerCompany: DOGM Date: 4/12/05Fax # 801-359-3940 Page 1 of 16Dustin,I hope these plans are  
acceptable.Regards,Richard Millercell 303-881-5440richard.miller@intrepidpotash.com

RECEIVED

APR 13 2005

DIV. OF OIL, GAS &amp; MINING

## CONFIDENTIALITY CAUTION

This message is intended only for the use of the individual or entity to which it is addressed and contains information that is privileged and confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address at our cost.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED ON 8 Nov. 1994-6127

Expires March 31, 2007

8. Lease Serial No.

UTU-67755X

9. If Indian, Alaskan or Tribe Name

N/A

7. If Unit or C/A Agreement, Name and/or #

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed 20-1

9. API Well Number

43-019-31332

10. Field &amp; Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, UT

Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals

1. Type of Well

OILWELL ☒ GAS WELL ☐ OTHER ☐

2. Name of Operator

Intrepid Oil and Gas LLC

3a. Address

700 17th Street, Suite 1700

Denver CO 80202

3b. Phone No. (Include area code)

303-398-1951

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

100' FSL &amp; 2500' FWL

SESW, Sec 20, T26S, R19E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Deepen☐ Production (Start/Resume)☐ Water Shut-Off☐ Alter Casing☐ Fracture Treat☐ Reclamation☐ Well Integrity☐ Casing Repair☐ New Construction☐ Recomplete☐ Other☐ Change Plans☒ Plug and Abandon☐ Temporarily Abandon☐ Convert to Injection☐ Plug Back☐ Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the Proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Request permission to Abandon the above well per the attached procedure

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date:

4/15/05

By:

[Signature]

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR

Date:

4-18-05

Initials:

LAD

RECEIVED  
MOAB FIELD OFFICE  
2005 DEC 23 A 11:35  
DEPT OF THE INTERIOR  
BUREAU OF LAND MGMT

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Richard Miller

Title

Spec. Prog. Mgr

Date

12/20/04

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By:

[Signature]

Title

Assistant Field Manager,  
Division of Resources

Date

3/11/5

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL ATTACHED  
RECEIVED

APR 13 2005

DIV - OIL, GAS &amp;

Notice of Intent to Abandon  
Intrepid Oil and Gas, LLC  
Kane Springs Federal #20-1  
Lease U-54037  
Section 20, T26S, R19E  
Grand County, Utah

#### CONDITIONS OF APPROVAL

1. Notify Jack Johnson (435-259-2129) of the BLM Moab Field Office at least 24-hours prior to starting plugging operations.
2. Should you have any questions regarding this approval, please call Eric Jones (435-259-2117) of the BLM Moab Field Office.
3. Any questions regarding surface reclamation may be directed to Rich McClure (435-259-2127) of the BLM Moab Field Office.
4. Within 30-days of plugging the well, submit a subsequent report of abandonment on a sundry notice (Form 3160-5). The report should describe all work that was done, including cement volumes, plug depth, etc.

**PLUG & ABANDONMENT PROCEDURE**

December 20, 2004

**Kane Springs Federal #20-1**

Wildcat

Surface: 2400' FWL &amp; 1000' FSL

BHL: 513' FNL &amp; 1049' FWL, Section 20, T-26-S, R-19-E

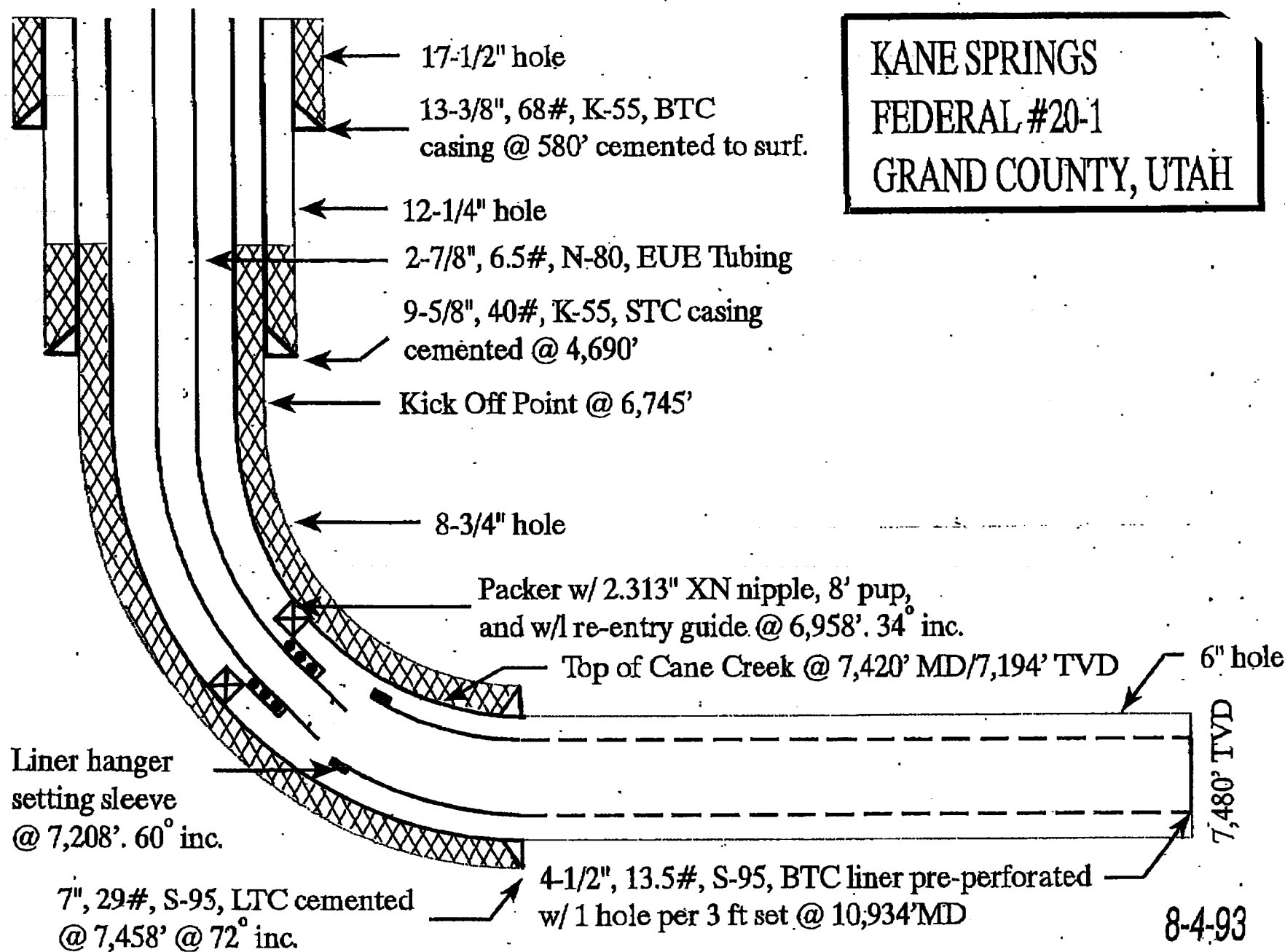
Grand County, Utah / API #43-019-31332

**Note:** All cement volumes use 10% excess per 1000' of depth, both inside and outside; or use 100% excess outside casing, 50' excess inside casing and 50' excess for a casing annulus, whichever is greater. The stabilizing wellbore fluid will be produced water least 9.5 ppg. Cement: either Class B Neat, mixed at 15.8ppg with a 1.18 cf/sx yield for plugs below 6000' and ASTM Type III, mixed at 14.8ppg with 1.32 cf/sx yield for plugs above 6000'.

1. Prepare location for rig and other equipment. Access to location will need dirt work prior to rig arrival. Dig a small earthen pit for well returns and cement wash up.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with brine as necessary. ND wellhead and NU BOP. Test BOP. Comply with all UDOGM, BLM, and Intrepid safety rules and regulations.
3. PU on tubing and release seal assembly from Model DB packer at 6960'. TOH and visually inspect 2-7/8" tubing, LD packer. If necessary LD this tubing and PU a workstring.
4. Round trip a 7" 29# casing scraper to 6930' or as deep as possible.
5. **Plug #1 (4-1/2" Liner top and 7" Casing shoe: 7508' - 6880')**: TIH with tubing and set a 7" CR retainer at 6930' above packer. Pressure test tubing to 1500#. Load casing with brine and circulate well clean. Pressure test casing to 1000#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix and pump 222 sxs Class B cement, squeeze 204 sxs below the CR to cover the liner top and 7" casing shoe, then spot 18 sxs above the CR. PUH to 5800'.
6. Rig up a wireline unit and run a Cement Bond log to determine the top of cement outside the 7" casing. If the TOC is appropriate to recover some of the 7" casing then do the following: perforate the 7" casing 30' above the 7" X 9-5/8" annulus cement top. Establish circulation to surface out the 7" X 9-5/8" annulus with water; circulate clean. ND the BOP and weld a 7" slip-on collar onto the 7" casing stub. Cut the 7" casing at the depth perforated. Pull and LD as much 7" casing as possible.
7. **Plug #2 (7" Casing Isolation plug: 5800' - 5700')**: Mix 24 sxs Type III cement and spot balanced plug inside casing to isolate this interval. PUH with tubing to 4740'.
8. **Plug #3 (9-5/8" Casing shoe: 4740' - 4640')**: Mix 24 sxs Type III cement and spot balanced plug inside casing to cover the 9-5/8" casing shoe. TOH with tubing.
9. **Plug #4 (7" Casing stub: depth to be determined)**: TIH with tubing to 60' below the 7" casing stub. Mix 50 sxs Type III cement and spot balanced plug inside casing to cover the 7" casing stub. TOH with tubing.



10. If unable to pull 7" casing, or it is determined that casing recovery is not economic or feasible, then set plug #4 from 2700' to 2800' (approximately 1/2 way in between the 9-5/8" casing shoe and the 13-3/8" casing shoe). First, perforate 3 HSC holes at 2700' and establish rate into. Set a 7" cement retainer at 2650' and squeeze 30 sxs outside the 7" casing and leave 25 sxs inside. TOH with tubing.
11. If able to pull 7" casing, then after setting plug #4 to cover the 7" casing stub then: Rig up a wireline unit and run a Cement Bond log to determine the top of cement outside the 9-5/8" casing. If the TOC is appropriate to recover some of the 9-5/8" casing, then do the following: perforate the 9-5/8" casing 30' above the 9-5/8" X 13-3/8" annulus cement top. Establish circulation to surface out the 9-5/8" X 13-5/8" annulus with water; circulate clean. ND the BOP and weld a 9-5/8" slip-on collar onto the 9-5/8" casing stub. Cut the 9-5/8" casing at the depth perforated. Pull and LD as much 9-5/8" casing as possible.
12. Plug #5 (9-5/8" Casing stub: depth to be determined): TIH with tubing to 50' below the 9-5/8" casing stub. Mix 60 sxs Type III cement and spot balanced plug inside casing to cover the 9-5/8" casing stub. TOH with tubing.
13. Plug #6 (13-3/8" casing shoe, 630' - 530'): Perforate 6 squeeze holes through the existing casings (possibly the 7" and 9-5/8"). Establish circulation to surface out the bradenhead valve and intermediate valves. TIH with tubing to 580'. Mix and spot 74 sxs Type III cement, pull up with tubing and squeeze 24 sxs outside 9-5/8" x 12-1/4" casing, 14 sxs outside 9-5/8" x 13-3/8" casing, 12 sxs outside 7" x 9-5/8" annulus, and leave 24 sxs inside 7" casing. TOH and LD all tubing.
14. Plug #7 (Surface; 100'-Surface): Perforate 6 squeeze holes through the existing casing (possibly the 7" and 9-5/8"). Establish circulation to surface out the bradenhead and intermediate valves. Mix and pump approximately 100 sxs type III cement down the casings to circulate good cement out the bradenhead and annuli. WOC.
15. Cut off surface and production casing below ground level. Fill well with cement as necessary and install P&A marker to comply with regulations. RD, MOL, and restore location per BLM requirements.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Sundry Notices and Reports on Wells

COPY

Well file

## 1. Type of Well

Oil Well

## 2. Name of Operator

Intrepid Oil &amp; Gas LLC

## 3. Address &amp; Phone No. of Operator

700 17<sup>th</sup> Street, Suite 1700, Denver, Colorado, 80202

## 4. Location of Well, Footage, Sec., T, R, M

513' FNL and 1049' FWL, Section 20, T-26-S, R-19-E

5. Lease Number  
540376. If Indian, All. or  
Tribe Name  
N/A7. Unit Agreement Name  
Kane Springs  
Federal Ut.8. Well Name & Number  
Kane Springs Fed 20-19. API Well No.  
43-019-3133210. Field and Pool  
Wildcat11. County & State  
Grand County, Utah

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment

## Type of Action

☒ Abandonment☐ Recompletion☐ Plugging Back☐ Casing Repair☐ Altering Casing☐ Other -☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut off☐ Conversion to Injection

## 13. Describe Proposed or Completed Operations

This well was plugged and abandoned on April 25, 2005 per the attached report.

## 14. I hereby certify that the foregoing is true and correct.

SIGNATURE

*William F. Clark*  
William F. Clark

Contractor

*Richard Miller Intrepid*

May 23, 2005

(This space for Federal or State Office use)

APPROVED BY

Title

Date

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JUN 01 2006

DIV. OF OIL, GAS &amp; MINING

# A-PLUS WELL SERVICE, INC.

P.O. BOX 1979  
Farmington, New Mexico 87499  
505-325-2627 \* fax: 505-325-1211

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Intrepid Oil and Gas, LLC  
**Kane Springs Fed #20-1**

April 29, 2005  
Page 1 of 2

100' FSL & 2500' FWL, Section 20, T-26-S, R-19-E  
Grand County, UT  
Lease Number: UTU-67755X  
API #43-019-31332

## Plug & Abandonment Report

### Work Summary:

Notified BLM on 4/14/05

4/18/05 Road rig from Farmington to location. Spot rig.

4/19/05 Set rig matting boards and RU rig. Well pressures: 0# casing, 500# tubing. Attempt to pump down tubing, pressured up to 2000#. Bled down tubing to pit. ND wellhead. NU BOP, test. Pressure test casing to 1000#, held OK. Work Model D packer seal assembly free; bleed down pressure. Pump down tubing and casing to work salt plug out of tubing. Circulate casing with 100 bbls of brine. TOH with 221 joints 2.875" tubing and LD packer seal assembly. Shut in well.

4/20/05 Casing pressure: 0#. Round trip 220 joints tubing with 7" casing scraper to 6937'. TIH and set 7" DHS CR at 6747'. Pressure test tubing to 2000#, held OK. Circulate casing above CR clean with 150 bbls of brine. Procedure change approved by Eric Jones with Moab BLM not to cement below the CR.

**Plug #1** with CR at 6747', spot 30 sxs Type II cement (35 cf) inside casing above CR up to 6578' to isolate the horizontal production interval and the 4.5" liner and 7" casing shoe.

PUH to 5801'. Load casing with 7 bbls of water.

**Plug #2** with 30 sxs Type II cement (35 cf) inside casing from 5801' up to 5642' to seal the lower 7" casing.

PUH to 4740'. Shut in well and WOC overnight.

4/21/05 Well pressures: 0#. RU Mesa wireline. RIH with wireline tools to 4100', unable to get deeper. PUH with wireline. PU 4.75" bit and sub. TIH with 150 joints tubing to 4729'. Circulate casing clean with 80 bbls of brine. TOH and LD bit. RIH with wireline tools. Run cement bond log. RD wireline. TIH with 151 joints tubing to 4761'. Load casing with 9 bbls of brine.

**Plug #3** with 27 sxs Type II cement (32 cf) inside the casing from 4761' to 4590' to cover the 9.625" casing shoe.

TOH with tubing. RU A-Plus wireline. Perforate 3 holes at 2600'. Establish circulation out the 9.625" casing with 75 bbls of brine. Establish circulation out the bradenhead with 80 bbls fresh water.

**Plug #4** mix and pump 106 sxs Type II cement (125 cf), squeeze 53 sxs outside the 9.625" casing and squeeze 27 sxs outside the 7" casing and leave 26 sxs inside the 7" casing from 2554' up to 2450'.

TOH with tubing. Shut in well.

## A-PLUS WELL SERVICE, INC.

P.O. BOX 1979  
Farmington, New Mexico 87499  
505-325-2627 \* fax: 505-325-1211

---

Intrepid Oil and Gas LLC  
Kane Springs Fed #20-1

April 29, 2005  
Page 2 of 2

### Work Summary - Continued:

4/22/05 Well pressures: 0#. TIH with tubing and tag cement at 2156'. Circulate casing clean with 150 bbls of fresh water. PUH to 575". RU A-Plus wireline. Perforate 6 holes at 630'. Establish circulation out of the 9.625" casing with 60 bbls of water, circulate 20 bbls to the pit. Attempt to establish circulation out of the bradenhead with 60 bbls of water, no circulation. TIH with tubing to 567'.

**Plug #5** with 72 sxs Type II cement (85 cf): 1<sup>st</sup> spot all the cement inside the 7" casing from 567' up to 160'; 2<sup>nd</sup> TOH and LD tubing; 3<sup>rd</sup> load casing and squeeze 42 sxs outside the 9.625" casing to cover the 13.375" casing shoe; 4<sup>th</sup> squeeze 14 sxs outside the 7" casing; and 5<sup>th</sup> leave 26 sxs inside the 7" casing with TOC at 480'. Perforate 6 holes at 100'.

Establish partial circulation out of the 9.625" casing with 100 bbls.  
No circulation out the bradenhead with 60 bbls of water.

4/25/05 Load 9.625" casing with 40 bbls of water and 13.375" casing annulus with 60 bbls of fresh water.

**Plug #6** with 93 sxs Type II cement (110 cf) pumped down the casing from 100' to surface, circulate good cement out the bradenhead valve and the 9.625" x 13.375" casing annulus.

ND BOP. Dig out and cut off wellhead. Mix 20 sxs Type III cement to fill casing and then install the P&A marker.

RD & MOL.

Charlie Harrison with Intrepid was on location.

Jack Johnson with BLM was on location.

# A - PLUS WELL SERVICE, INC.

P.O. BOX 1979  
FARMINGTON, NM 87499  
505-325-2627 • FAX: 505-325-1211

## PLUGGING CONTROL WORKSHEET

Company: Intrepid

Start Work: 4-19-05

Well Name: Kane Spring Fed 20-1

Job Complete: 4-26-05

Purpose: To compare Proposed Plugging Plan (Sundry Procedure) To Actual Work

### Complete For Each Plug Set:

\*\*\*\*\*

Date and Time Plug Set: 4-21-05 3:00pm Initials: OCB

Sundry Procedure:

Actual Work Done:

Plug # 1

Plug # 1

From: 7508 To: 6880

From: 6747 To: 6578

With: 222 sxs cement

With: 30 sxs cement

Perforate: X No or at \_\_\_\_\_

Perforate at: \_\_\_\_\_ (\_\_\_\_ holes)

CIBP: X No or at \_\_\_\_\_

CIBP set at: \_\_\_\_\_

Cement Rt: \_\_\_\_\_ No or at 6930

Cement Rt set at: 6747; \_\_\_\_\_ sxs Under  
30 sxs Above; \_\_\_\_\_ sxs Into Annulus

Does Procedure and Actual Agree? \_\_\_\_ Yes X No

If No, Why Changes? \_\_\_\_\_

Changes Approved By (Include Time and Date): OK'd by ERIC JONES OLM

\*\*\*\*\*

Date and Time Plug Set: 4-21-05 4:00pm Initials: OCB

Sundry Procedure:

Actual Work Done:

Plug # 2

Plug # 2

From: 5800 To: 5700

From: 5801 To: 5642

With: 24 sxs cement

With: 30 sxs cement

Perforate: X No or at \_\_\_\_\_

Perforate at: \_\_\_\_\_ (\_\_\_\_ holes)

CIBP: X No or at \_\_\_\_\_

CIBP set at: \_\_\_\_\_

Cement Rt: X No or at \_\_\_\_\_

Cement Rt set at: \_\_\_\_\_; \_\_\_\_\_ sxs Under  
\_\_\_\_\_ sxs Above; \_\_\_\_\_ sxs Into Annulus

Does Procedure and Actual Agree? ✓ Yes \_\_\_\_ No

If No, Why Changes? \_\_\_\_\_

Changes Approved By (Include Time and Date): \_\_\_\_\_

\*\*\*\*\*

Date and Time Plug Set: 4-22-05 3:00pm Initials: OCB

Sundry Procedure:

Actual Work Done:

Plug # 3

Plug # 3

From: 34740 To: 4640

From: 4761 To: 459

With: 24 sxs cement

With: 27 sxs cement

Perforate: X No or at \_\_\_\_\_

Perforate at: \_\_\_\_\_ (\_\_\_\_ holes)

CIBP: X No or at \_\_\_\_\_

CIBP set at: \_\_\_\_\_

Cement Rt: X No or at \_\_\_\_\_

Cement Rt set at: \_\_\_\_\_; \_\_\_\_\_ sxs Under  
\_\_\_\_\_ sxs Above; \_\_\_\_\_ sxs Into Annulus

Does Procedure and Actual Agree? ✓ Yes \_\_\_\_ No

If No, Why Changes? \_\_\_\_\_

Changes Approved By (Include Time and Date): \_\_\_\_\_

\*\*\*\*\*

# A - PLUS WELL SERVICE, INC.

P.O. BOX 1979  
FARMINGTON, NM 87499  
505-325-2627 • FAX: 505-325-1211

## PLUGGING CONTROL WORKSHEET

Company: Intrepid

Start Work: \_\_\_\_\_

Well Name: Kane Spring Fed 20-1

Job Complete: \_\_\_\_\_

Purpose: To compare Proposed Plugging Plan (Sundry Procedure) To Actual Work

### Complete For Each Plug Set:

\*\*\*\*\*

Date and Time Plug Set: 4-22-05 7:00pm Initials: DCB

#### Sundry Procedure:

Plug # 4  
From: 2600 To: 2500  
With: \_\_\_\_\_ sxs cement  
Perforate: \_\_\_\_\_ No or at 2600  
CIBP: X No or at \_\_\_\_\_  
Cement Rt: \_\_\_\_\_ No or at 2550

#### Actual Work Done:

Plug # 4  
From: 2600 To: 2450  
With: 106 sxs cement  
Perforate at: 2600 (6 holes)  
CIBP set at: \_\_\_\_\_  
Cement Rt set at: 2554 sxs Under  
26 sxs Above; 50 sxs Into Annulus

Does Procedure and Actual Agree? ✓ Yes \_\_\_ No

If No, Why Changes? \_\_\_\_\_

Changes Approved By (Include Time and Date): \_\_\_\_\_

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Date and Time Plug Set: 4-23-05 12:00pm Initials: DCB

#### Sundry Procedure:

Plug # 5  
From: 630 To: 530  
With: 74 sxs cement  
Perforate: \_\_\_\_\_ No or at 630  
CIBP: X No or at \_\_\_\_\_  
Cement Rt: X No or at \_\_\_\_\_

#### Actual Work Done:

Plug # 5  
From: 630 To: 430  
With: 72 sxs cement  
Perforate at: 630 (6 holes)  
CIBP set at: \_\_\_\_\_  
Cement Rt set at: \_\_\_\_\_ sxs Under  
\_\_\_\_\_ sxs Above; \_\_\_\_\_ sxs Into Annulus

Does Procedure and Actual Agree? ✓ Yes \_\_\_ No

If No, Why Changes? \_\_\_\_\_

Changes Approved By (Include Time and Date): \_\_\_\_\_

\*\*\*\*\*

Date and Time Plug Set: 4-26-05 9:00pm Initials: DCB

#### Sundry Procedure:

Plug # 6  
From: 100 To: surf  
With: 100 sxs cement  
Perforate: X No or at 100  
CIBP: X No or at \_\_\_\_\_  
Cement Rt: X No or at \_\_\_\_\_

#### Actual Work Done:

Plug # 6  
From: 100 To: surf  
With: 93 sxs cement  
Perforate at: 100 (6 holes)  
CIBP set at: \_\_\_\_\_  
Cement Rt set at: \_\_\_\_\_ sxs Under  
\_\_\_\_\_ sxs Above; \_\_\_\_\_ sxs Into Annulus

Does Procedure and Actual Agree? ✓ Yes \_\_\_ No

If No, Why Changes? \_\_\_\_\_

Changes Approved By (Include Time and Date): \_\_\_\_\_

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